



SECOND QUARTER 2006
QUARTERLY GROUNDWATER MONITORING REPORT

Sampled on June 28, 2006

Job # SP-120

LOP # 12365

Big Oil & Tire – Big Foot Service Station (Big Foot Gas)
2801 Central Avenue
McKinleyville, California 95519

August 18, 2006

This *Quarterly Groundwater Monitoring Report* was prepared by SounPacific Environmental Services (SounPacific) for Big Oil & Tire Co. (BO&T), using data from previous studies conducted by Clearwater Group, Inc. (CGI) and a review of relevant files at Humboldt County Department of Health and Human Services: Division of Environmental Health (HCDEH). Big Foot Gas (the Site) is located at 2801 Central Avenue in McKinleyville, California (Figure 1).

SITE DESCRIPTION

The Site is surfaced around the current structure with concrete and asphalt. Site improvements include a single story building with an attached, overhead awning that covers the main dispenser islands. The main structure covers approximately 800 square feet and is located near the center of the property with the entrance to the building facing west towards Central Avenue. Attached to the main structure is a small out building at the north end of the property that is used for storage (Figure 2).

Two (2) 12,000-gallon split compartmented underground storage tanks (USTs) are located in a single excavation between the station and Central Avenue and are used for the storage of three grades of unleaded gasoline and diesel fuel. Fuel is dispensed from two main dispenser islands, which are located under the awning. The Site is serviced by public utilities. Surface water is controlled by drainage ditches and storm drains (Figure 2).

SITE TOPOGRAPHY AND LAND USE

SounPacific understands that the property is currently owned by BO&T of Arcata, California. The main structure is used as a retail gas station for the dispensing of three grades of unleaded gasoline and diesel fuel from the USTs onsite. A commercial propane tank is located on the north section of the property (Figure 2). The surrounding land use is a mixture of commercial and residential. An automobile garage is located immediately to the south across Murray Road, and properties adjacent to the east, west, and north are undeveloped. The property surrounding the Site to the east and north is currently being developed into a Self Storage facility.

The Site is approximately two (2) miles east of the Pacific Ocean and approximately 110 feet above mean sea level (amsl). The Site is situated approximately 600 feet south of Norton Creek and 1,400 feet north of Widow White Creek. According to the United States Geological Survey Arcata North Quadrangle California-Humboldt County, 7.5 minute series (Topographic) 1959 (photo-revised 1972), a tributary of Norton Creek is re-routed into an underground culvert along the south side of the Site. Norton Creek is also artificially controlled along the eastern side of Central Avenue near the Site. These two engineered drainage features intersect near the southwestern corner of the property and flow west, toward the Pacific Ocean (Figure 2). It is uncertain if the engineered drainage along the southern and western boundaries of the Site will exhibit any hydraulic influence on groundwater flow directly beneath the Site. Topography consists of rolling terrain that gently slopes west toward the Pacific Ocean (Figure 1).

ENVIRONMENTAL SITE HISTORY

Previous studies from SounPacific and Clearwater Group, Inc. (CGI) indicated the following historical information:

1991 Installation of (2) 12,000-gallon Gasoline USTs

On May 8, 1991, Beacom Construction of Fortuna, California (Beacom) installed two (2) 12,000-gallon USTs (Figure 2). Prior to installation, three (3) groundwater samples (TP-1, TP-2, and TP-3) were collected from the excavation (Figure 3). No constituents were reported above laboratory detection limits (Table 1). In June of 1991, six (6) soil samples (W-1, W-2, E-1, E-2, E-3, and S-1) (Figure 3) were collected from beneath the product lines. Elevated gasoline range hydrocarbons were reported at the highest concentrations in sample E-2, which was located to the southeast of the eastern dispenser islands (Table 2).

1991 Removal of Former Gasoline and Kerosene USTs

On July 11, 1991, Beacom removed one (1) 2,000-gallon gasoline UST and one (1) 1,000-gallon kerosene UST from separate locations as indicated on Figure 3. Two (2) soil samples (Premium North and Premium South) were collected from the sidewalls of the gasoline UST removal excavation at a depth of 5.5 feet below ground surface (bgs) and one (1) groundwater sample (Premium) was collected from the bottom of the excavation pit. Beacom also collected two (2) soil samples (South #1 and South #3) beneath the product lines at a depth of 1'6" bgs (Figure 3). Elevated levels of TPHg and BTXE were reported in S-3, which was adjacent to the west of the station (Tables 1 and 2). Beacom also collected two (2) soil samples (Kerosene East and Kerosene West) at a depth of six (6) feet bgs and one (1) groundwater sample (Kerosene) from the 1,000-gallon kerosene UST removal excavation (Figure 3). TPH as solvent (TPHs) was reported in the groundwater at elevated concentrations (Table 1).

1995 CGI Investigation

On November 7, 1995, CGI staff conducted a preliminary site assessment at the Site in an effort to initially evaluate the extent of soil contamination related to the former 2,000-gallon gasoline UST and the former 1,000-gallon kerosene UST. The investigation consisted of hand-auguring two (2)

soil borings near the former 2,000-gallon gasoline UST (SB-1 and SB-2) and two (2) soil borings near the former 1,000-gallon kerosene UST (SB-3 and SB-4) (Figure 3). Based on the results of the investigation, it was determined that secondary sources of contamination remained near the former 2,000-gallon gasoline UST and near sample location South # 3 (near previous product lines) (Table 2). CGI recommended excavation of additional soil and the installation of monitoring wells.

2000 SounPacific Investigation

In a letter dated January 14, 1998, HCDEH requested a work plan to investigate the extent of petroleum hydrocarbon contamination in groundwater related to releases of gasoline and kerosene from the previous USTs and product lines, and to perform interim remedial actions at the Site. On September 20, 2000, SounPacific staff performed a subsurface investigation at the Bigfoot Service Station in accordance with Phase 1 of the approved CGI *Revised Subsurface Investigation and Interim Remediation Workplan*, dated August 14, 1999, and the CGI *Workplan Addendum*, dated December 21, 1999. The purpose of the investigation was to further evaluate the extent of soil and groundwater onsite. Ten (10) soil borings (B-1 through B-10) (Figure 3) were installed with a hand-auger to depths ranging from 6.3 feet bgs to 9.5 feet bgs, with the exception of borings B-4 and B-5, in which cement was encountered just below the surface of the soil. Groundwater samples were collected from eight (8) boring locations (B-1 through B-3, and B-6 through B-10). Elevated concentrations of TPHg, BTXE, and MTBE were reported in borings B-7 and B-10, located between the station and USTs and east of the dispenser islands, respectively (Table 1). Soil samples were collected from nine (9) boring locations (B-1 through B-3 and B-5 through B-10). A soil sample from boring B-5 was also analyzed for TPHd due to empirical evidence observed in the field. Elevated concentrations of TPHg were reported in boring B-10 (Table 2). Since MTBE was detected in six (6) out of eight (8) groundwater samples, along with the presence of other gasoline constituent contaminants, SounPacific recommended that further investigation be conducted to define the extent of contamination, including the investigation of potential contaminant transport conduits, the installation of monitoring wells, and the initiation of a groundwater monitoring program.

2002 SounPacific Investigation

In a letter dated March 1, 2001, HCDEH requested a work plan to determine the extent of contamination at the Site and to evaluate preferential transport pathways. On April 22, 2002, SounPacific staff performed a subsurface investigation which followed the scope of work in the approved *Subsurface Investigation Workplan*, dated April 10, 2001. The investigation consisted of drilling and sampling seven (7) soil borings (B-11, B-13 through B-18) and installing six (6) two-inch diameter monitoring wells (MW-1 through MW-6) (Figure 3). Soil and groundwater samples were collected from each boring location (Tables 1 and 2).

The highest concentrations of petroleum hydrocarbons were detected in the samples from well MW-5, which is located adjacent to the previous 2,000-gallon gasoline UST. SounPacific identified three discrete areas that appeared to have a significant groundwater impact. SounPacific recommended that a work plan be developed to deal with these three areas of concern and that quarterly sampling and monthly water levels continue as approved.

2003 Site Assessment (SounPacific)

On June 20, 2003, SounPacific submitted to HCDEH a *Fourth Quarterly Groundwater Monitoring / Site Assessment Report*. The purpose of the report was to discuss the groundwater-monitoring program that took place at the Site, present a site conceptual model that interpreted all previous investigative work at the Site, and provide recommendations for future activity. In this report, SounPacific stated that information gathered to date indicated that the soil plume had been delineated to the east, northeast, and southeast, but that further investigation was needed just to the north of the dispenser islands around borings B-16, B-17, and B-18; to the west of the UST tank farm; and to the south in the area of boring B-5. SounPacific recommended that a work plan be prepared to delineate the soil plume in these areas. In addition, SounPacific recommended that the work plan include a series of borings near the product lines, which would be useful for determining whether the product line trenches were acting as preferential pathways.

2006 Site Assessment (SounPacific)

A *Subsurface Investigation Workplan*, dated August 3, 2005, was approved by HCDEH in a letter

dated August 22, 2005. In addition, SounPacific submitted an addendum, entitled *Response to Workplan Approval Letter dated August 22, 2005*, which further clarified SounPacific's rational and intent for work proposed in the Work Plan. This addendum was approved in a letter from HCDEH, dated October 27, 2005.

On February 2, 3, and 9, 2006, SounPacific performed a subsurface investigation consisting of drilling and sampling fifteen (15) onsite and offsite soil borings to further delineate the lateral and vertical extent of petroleum hydrocarbon contamination. Soil analytical results from the investigation did not identify any significant soil contamination, with TPHg less than 3.2 ppm, TPHd less than 90 ppm, and TPHmo at less than 51 ppm. Other constituents, such as methyl tertiary butyl ether (MTBE) were sporadically detected at concentrations below one (1) ppm. The highest concentrations were encountered at or above a depth of two (2) feet bgs in the fill under the asphalt paving. Analytical results for groundwater collected from boreholes reported TPHg at a maximum of 23,000 ppb, and its' BTXE constituents, near the south end of the building and near the dispenser islands. MTBE (maximum 3,300 ppb) was detected near the dispenser islands. TPHd (maximum 520 ppb) was also detected sporadically throughout the Site. TPHmo was detected (maximum 20,000 ppb) randomly throughout the Site. Groundwater contamination was identified in borings on the west side of Central Avenue.

In summary, the investigation determined that the extent of any residual impacted soil at the Site is extremely limited and does not appear to require further action. Groundwater contaminant concentrations on the Site exceed regulatory thresholds and may require active remediation. Although groundwater contamination was identified on the west side of Central Avenue, concentrations in the groundwater beneath Central Avenue are unknown.

RESULTS OF QUARTERLY SAMPLING

A quarterly groundwater monitoring program was implemented in May 2002, following the installation of the monitoring wells at the Site, and will continue until further notice. The program consists of recording quarterly water level data and collecting quarterly groundwater samples for

laboratory analysis. Water level data is used to develop a figure which displays the groundwater gradient and average flow direction using standard three-point calculations. Analytical results of monitoring well groundwater samples collected during quarterly sampling events present petroleum hydrocarbon concentrations in the groundwater beneath the Site. This report documents the results from the monitoring wells that were gauged and sampled on June 28, 2006.

WELL/DATE DRILLED	STATUS	MAINTENANCE / NOTES
MW-1/2002	ACTIVE	Suspected iron sheen, No HC Odor
MW-2/2002	ACTIVE	Suspected iron sheen, HC Odor, Obstruction in well ~10' btc
MW-3/2002	ACTIVE	Suspected iron sheen, No HC Odor
MW-4/2002	ACTIVE	Suspected iron sheen, HC Odor
MW-5/2002	ACTIVE	No Sheen, HC Odor
MW-6/2002	ACTIVE	Suspected iron sheen, No HC Odor

FIELD DATA

Wells Gauged: MW-1, 2, 3, 4, 5, and 6

Groundwater: Depth ranged from 2.48 feet to 3.73 feet below top of casing (btc) (Table 3)
Elevation ranged from 109.09 to 109.84 feet amsl (Table 3)

Floating Product: Sheen detected in MW-1, MW-2, MW-3, MW-4, and MW-6

GW Flow Direction: West (Figure 4)

GW Gradient: 0.006 (Figure 4)

On June 28, 2006, the depth to groundwater in the Site's six (6) monitoring wells ranged from 2.48 feet btc in well MW-1 to 3.73 feet btc in MW-2. When corrected to mean sea level, water level elevations ranged from 109.09 feet amsl in MW-1 to 109.84 feet amsl in well MW-5. Groundwater levels for the June 28, 2006, monitoring event, along with historical levels and elevations are included in Table 3. Groundwater flow on June 28, 2006, was towards the west at a gradient of 0.006 feet per foot (ft/ft). The groundwater flow and gradient are graphically depicted in Figure 4. Prior to

sampling, all wells were purged; the groundwater field parameters for each well are presented on the following pages.

MONITORING WELL MW-1 GROUNDWATER FIELD PARAMETERS

Time	Total Vol. Removed/ gal	pH	Temp./ F	Cond./ ms(cm)⁻¹
1:12 pm	0	6.44	56.88	0.171
1:22	1.6	6.64	56.26	0.163
1:29	3.2	6.71	56.24	0.151
1:34	4.9	6.75	56.26	0.159

MONITORING WELL MW-2 GROUNDWATER FIELD PARAMETERS

Time	Total Vol. Removed/ gal	pH	Temp./ F	Cond./ ms(cm)⁻¹
12:31 pm	0	6.49	56.37	0.702
12:40	1.3	6.47	55.96	0.686
12:47	2.7	6.39	55.85	0.613
12:52	4.0	6.36	55.74	0.541

MONITORING WELL MW-3 GROUNDWATER FIELD PARAMETERS

Time	Total Vol. Removed/ gal	pH	Temp./ F	Cond./ ms(cm)⁻¹
1:48 pm	0	6.46	59.06	0.267
1:55	1.5	6.38	60.60	0.247
2:03	3.0	6.45	59.28	0.218
2:08	4.5	6.45	59.55	0.240

MONITORING WELL MW-4 GROUNDWATER FIELD PARAMETERS

Time	Total Vol. Removed/ gal	pH	Temp./ F	Cond./ ms(cm)⁻¹
12:00 pm	0	6.65	60.84	0.363
12:09	1.5	6.68	61.63	0.319
12:13	3.0	6.71	61.27	0.304
12:19	4.4	6.72	60.98	0.294

MONITORING WELL MW-5 GROUNDWATER FIELD PARAMETERS

Time	Total Vol. Removed/ gal	pH	Temp./ F	Cond./ ms(cm)⁻¹
11:29 am	0	6.40	58.11	0.332
11:35	1.4	6.50	61.01	0.320
11:43	2.9	6.58	60.71	0.321
11:48	4.3	6.62	60.87	0.322

MONITORING WELL MW-6 GROUNDWATER FIELD PARAMETERS

Time	Total Vol. Removed/ gal	pH	Temp./ F	Cond./ ms(cm)⁻¹
2:20 pm	0	6.62	60.10	0.272
2:27	1.4	6.59	60.57	0.242
2:32	2.9	6.67	60.28	0.236
2:38	4.3	6.70	59.96	0.227

ANALYTICAL RESULTS

Sampling locations: MW-1, 2, 3, 4, 5, and 6

Analyses performed: TPHg, BTXE, MTBE, DIPE, TAME, ETBE, TBA, TPHd, and TPHmo

Laboratory Used: Basic Labs, Redding, California (ELAP #1677)

The analytical results for the current monitoring event are presented below and graphically depicted in Figure 5. The laboratory report is included as Appendix A. The historical analytical results for all monitoring wells, since the implementation of groundwater monitoring are included as Table 4.

	<u>MW-1</u> (ppb)	<u>MW-2</u> (ppb)	<u>MW-3</u> (ppb)	<u>MW-4</u> (ppb)	<u>MW-5</u> (ppb)	<u>MW-6</u> (ppb)
TPHg:	ND < 50.0	1,160	96.1	4,970	8,760	89.4
Benzene:	ND < 0.5	ND < 5.0	ND < 0.5	55.8	ND < 5.0	2.6
Toluene:	ND < 0.5	ND < 5.0	ND < 0.5	99.9	16	ND < 0.5
Xylenes:	ND < 1.0	ND < 10.0	ND < 1.0	735	1,320	ND < 1.0
Ethylbenzene:	ND < 0.5	ND < 5.0	ND < 0.5	130	166	ND < 0.5
MTBE:	ND < 1.0	979	99.5	7.7	ND < 10.0	13.1
DIPE:	ND < 0.5	ND < 5.0	ND < 0.5	ND < 1.0	ND < 5.0	ND < 0.5
TAME:	ND < 0.5	459	29.5	ND < 1.0	ND < 5.0	5.4
ETBE:	ND < 0.5	ND < 5.0	ND < 0.5	ND < 1.0	ND < 5.0	ND < 0.5
TBA:	ND < 50.0	ND < 500	ND < 50.0	ND < 100	ND < 500	ND < 50.0
TPHd:	ND < 50	125	ND < 50	593	704	65
TPHmo:	100	127	111	67	155	156

COMMENTS AND RECOMMENDATIONS

A groundwater monitoring event for the six (6) groundwater monitoring wells at the Bigfoot Gas Station at 2801 Central Avenue in McKinleyville, California, was conducted on June 28, 2006. A

summary of the results are presented below.

- Groundwater flow was towards the west at a gradient of 0.006 feet per foot, consistent with prior monitoring events.
- Groundwater samples from the six (6) wells were collected and analyzed for TPHg, BTXE, five-fuel oxygenates, TPHd, and TPHmo. Laboratory results reported TPHg in the samples from five (5) wells at concentrations ranging from 89.4 ppb (MW-6) to 8,760 ppb (MW-5). BTXE was reported in the samples from wells MW-4, MW-5, and MW-6 with benzene at a maximum concentration of 55.8 ppb (MW-4), toluene at a maximum concentration of 99.9 ppb (MW-4), total xylenes at a maximum concentration of 1,320 ppb (MW-5), and ethylbenzene at a maximum concentration of 166 ppb (MW-5). Of the fuel oxygenates, MTBE was reported in the samples from four (4) wells at a maximum concentration of 979 ppb (MW-2); TAME was reported in the samples from three (3) wells at a maximum concentration of 459 ppb (MW-2); ETBE, DIPE, and TBA were not reported in any of the samples. TPHd was reported in the samples from four (4) wells at a maximum concentration of 704 ppb (MW-5); TPHmo was reported in the samples from all six (6) wells at a maximum concentration of 156 ppb.

Based upon these results the following observations and conclusions have been made.

- A plume of TPHg in groundwater is centered near MW-5. Conversely, a plume of MTBE in groundwater is centered near MW-2. TPHd may be a carryover from TPHg as it is typically present at less than 10% of the TPHg. The concentration of TPHmo in groundwater does not appear to be as problematic as does the TPHg or the MTBE. See Figures 6 through 11.

Based on the results of the June 2006 monitoring event and historical results, the following future activities are proposed.

- Groundwater monitoring will be continued until further notice. Groundwater level measurements will be collected and samples analyzed from the six (6) onsite monitoring wells to assist with groundwater flow direction, gradient, and hydrocarbon constituent levels. Collected groundwater samples will be analyzed for TPHg, BTXE, five-fuel oxygenates (that includes MTBE, TPHd, and TPHmo).
- SounPacific has recently submitted a *Report of Findings* for the work performed in February 2006. The report also included details for corrective action at the Site. However, due to a review of long term plans for the facility, the proposed *Corrective Action Plan* (CAP) is currently being revised. The addendum to the CAP will be submitted in the near future.

CERTIFICATION

This report was prepared under the direct supervision of a California registered geologist at SounPacific. All information provided in this report including statements, conclusions, and recommendations are based solely on field observations and analyses performed by a State-certified laboratory. SounPacific is not responsible for laboratory errors.

SounPacific performs all work in a manner consistent with industry standards used by scientists in the same or similar professions conducting the same or similar work, in the same or similar geographic area. SounPacific will and has taken reasonable steps to assure that data collection is accurate. Please note that rain, buried utilities, and other factors can influence groundwater depths, directions and other factors beyond what SounPacific could reasonably determine.

SounPacific

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ATTACHMENTS

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- Figure 5: Groundwater Analytical Results
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- Figure 7: MW-2 Hydrocarbon Concentrations vs. Time
- Figure 8: MW-3 Hydrocarbon Concentrations vs. Time
- Figure 9: MW-4 Hydrocarbon Concentrations vs. Time
- Figure 10: MW-5 Hydrocarbon Concentrations vs. Time
- Figure 11: MW-6 Hydrocarbon Concentrations vs. Time

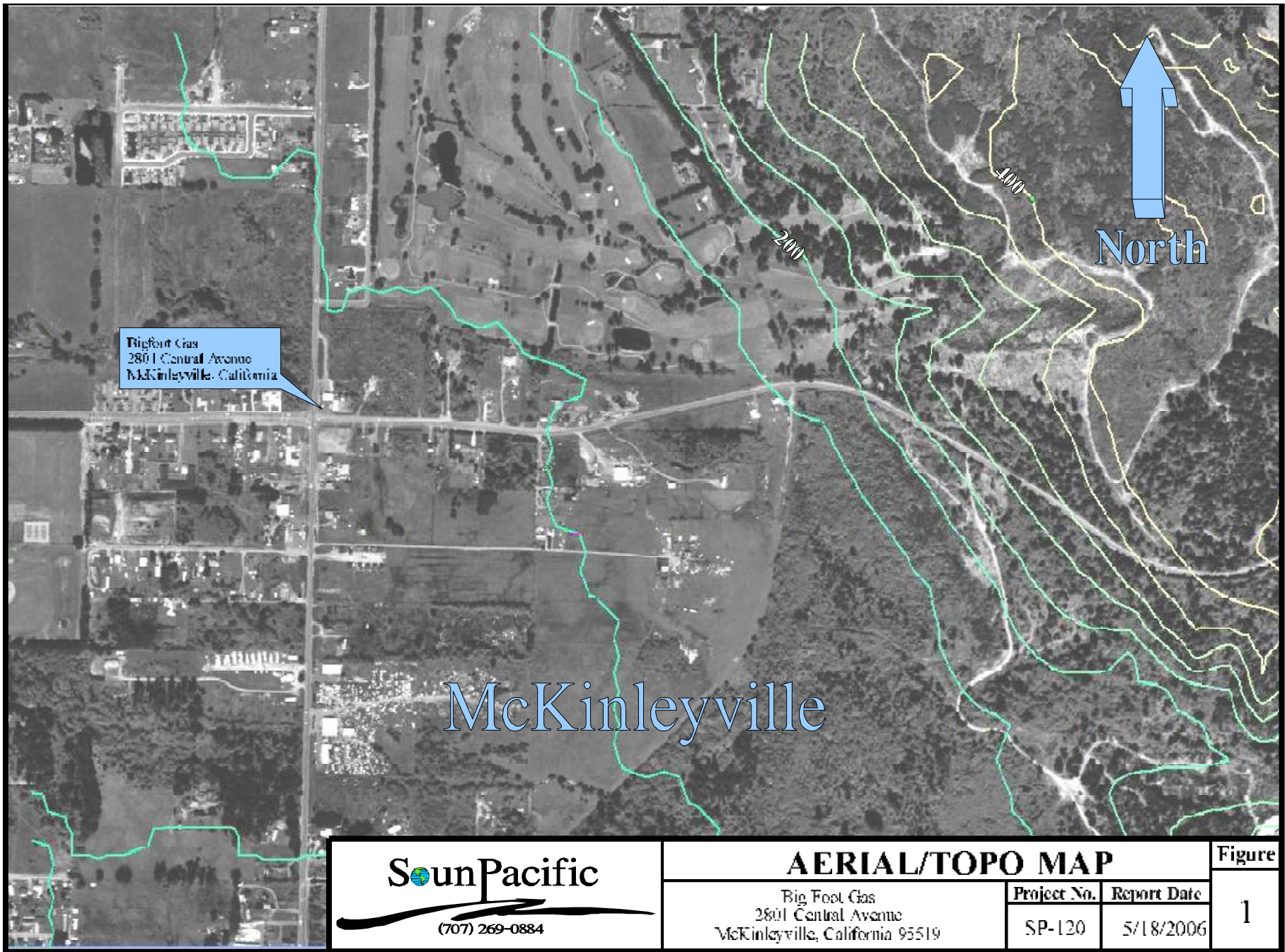
TABLES & CHART

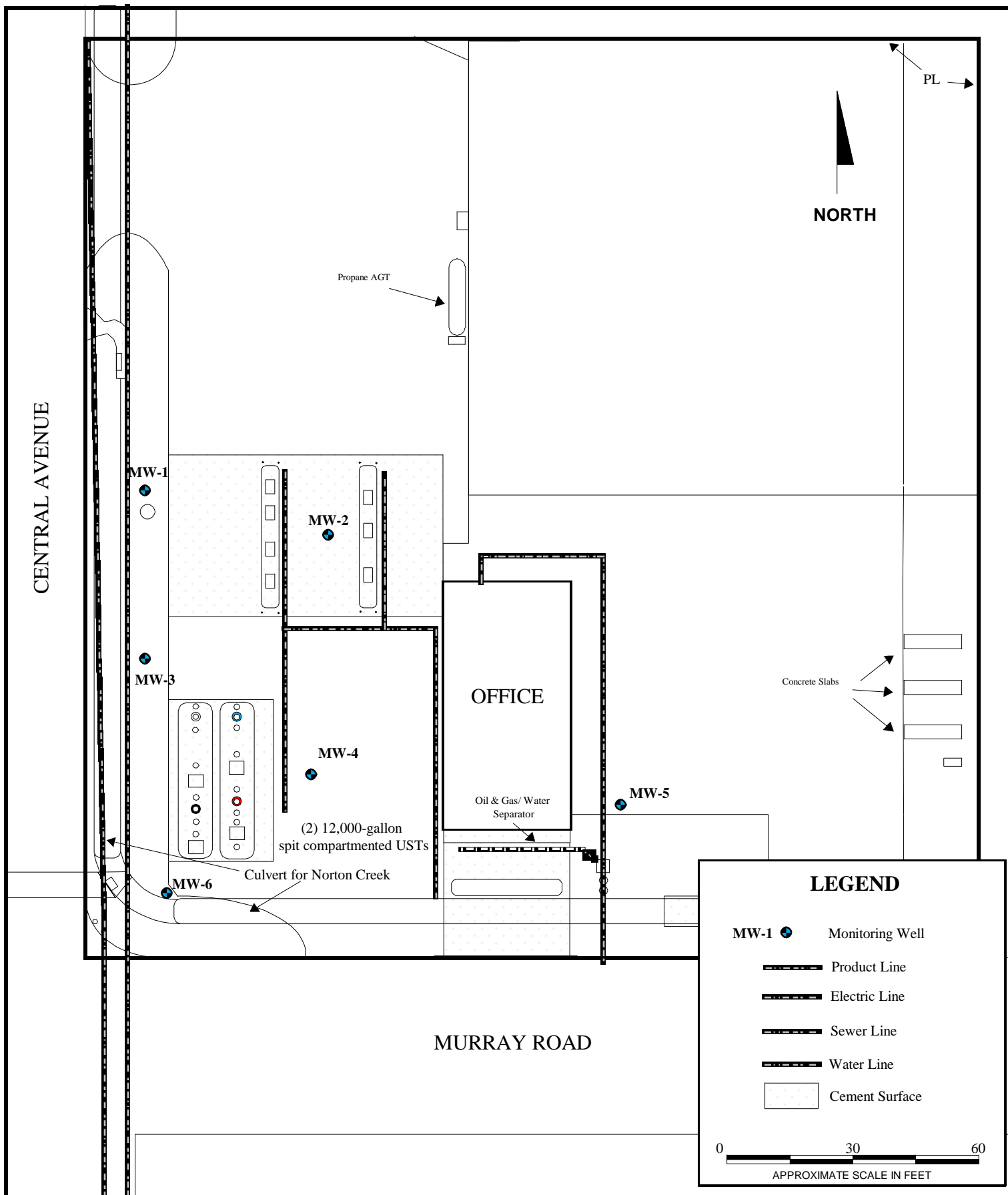
- Table 1: Groundwater Analytical Results
- Table 2: Soil Analytical Results
- Table 3: Water Levels
- Table 4: Groundwater Analytical Results from Monitoring Wells
- Chart 1: Hydrograph


APPENDICES

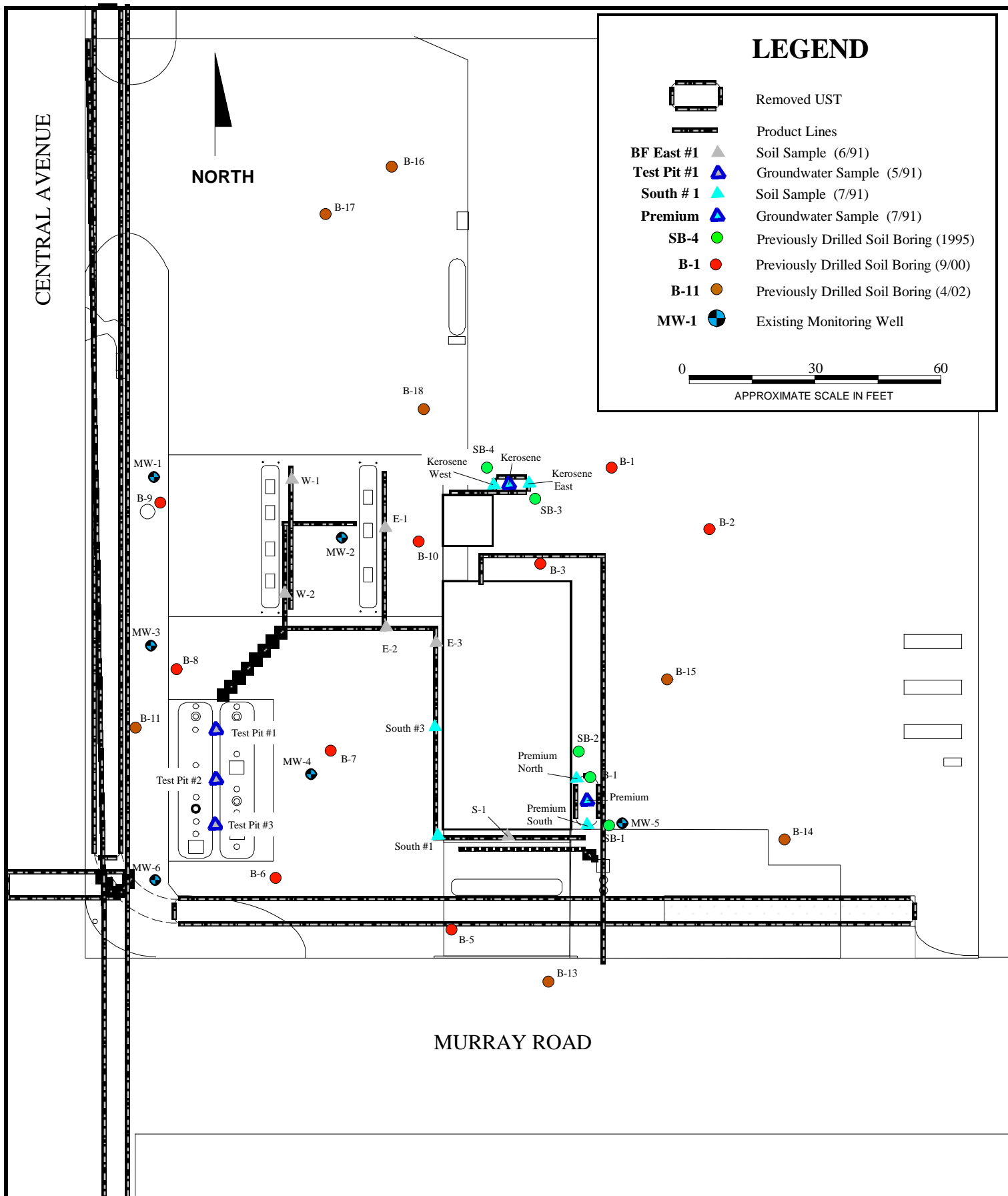
- Appendix A: Laboratory Report and Chain-of-Custody Form
- Appendix B: Standard Operating Procedures
- Appendix C: Field Notes


Figures

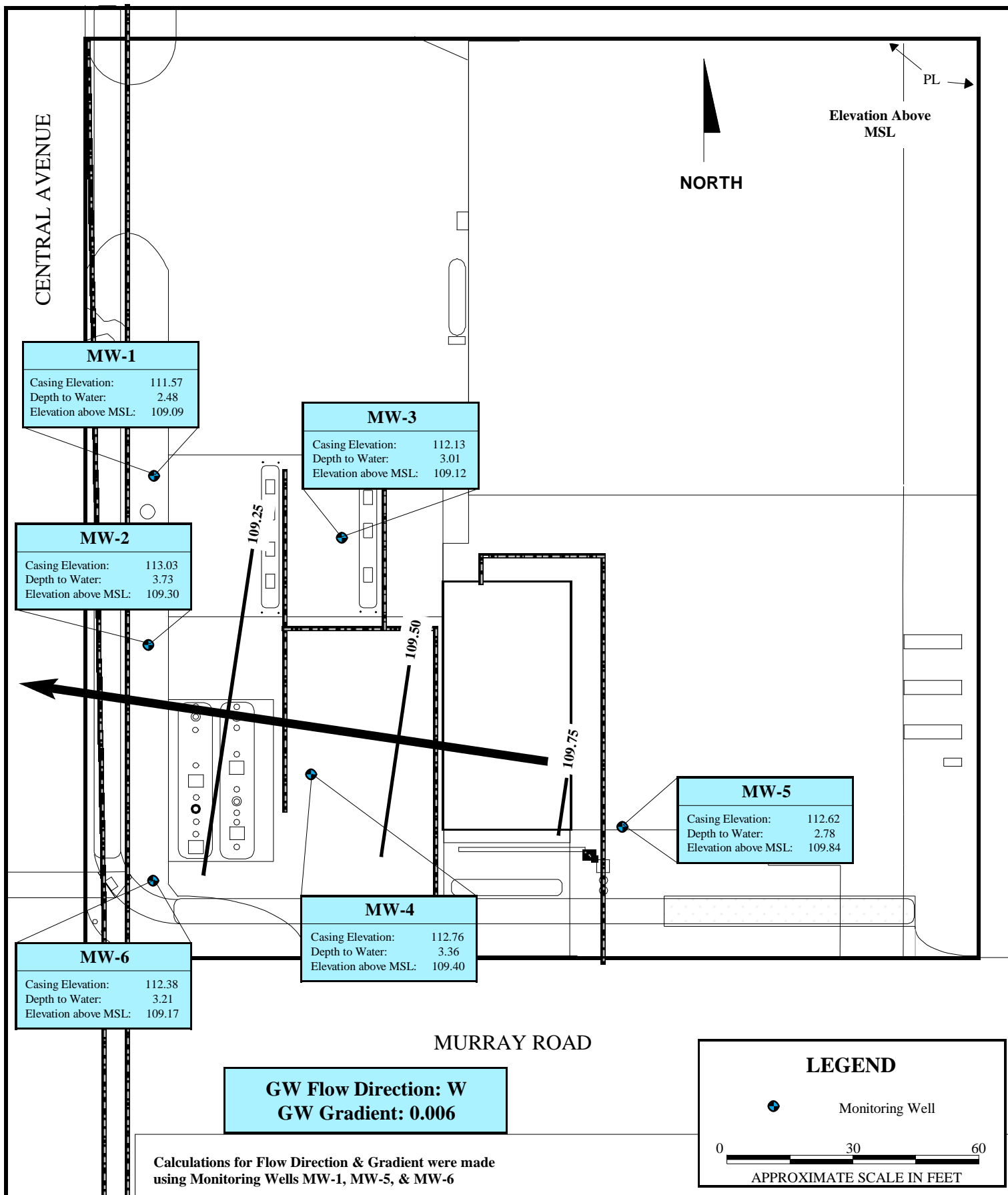





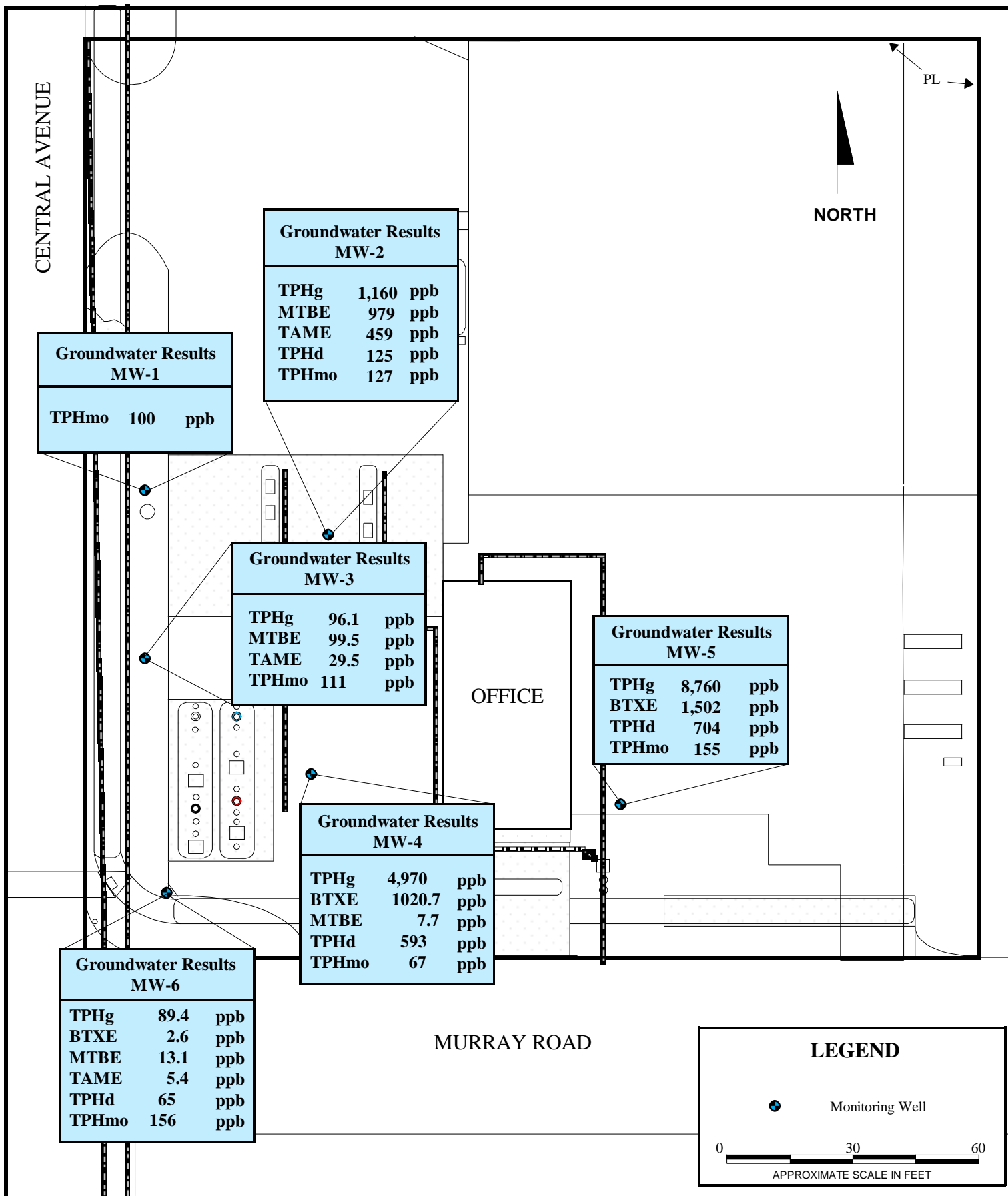
	SITE PLAN			Figure
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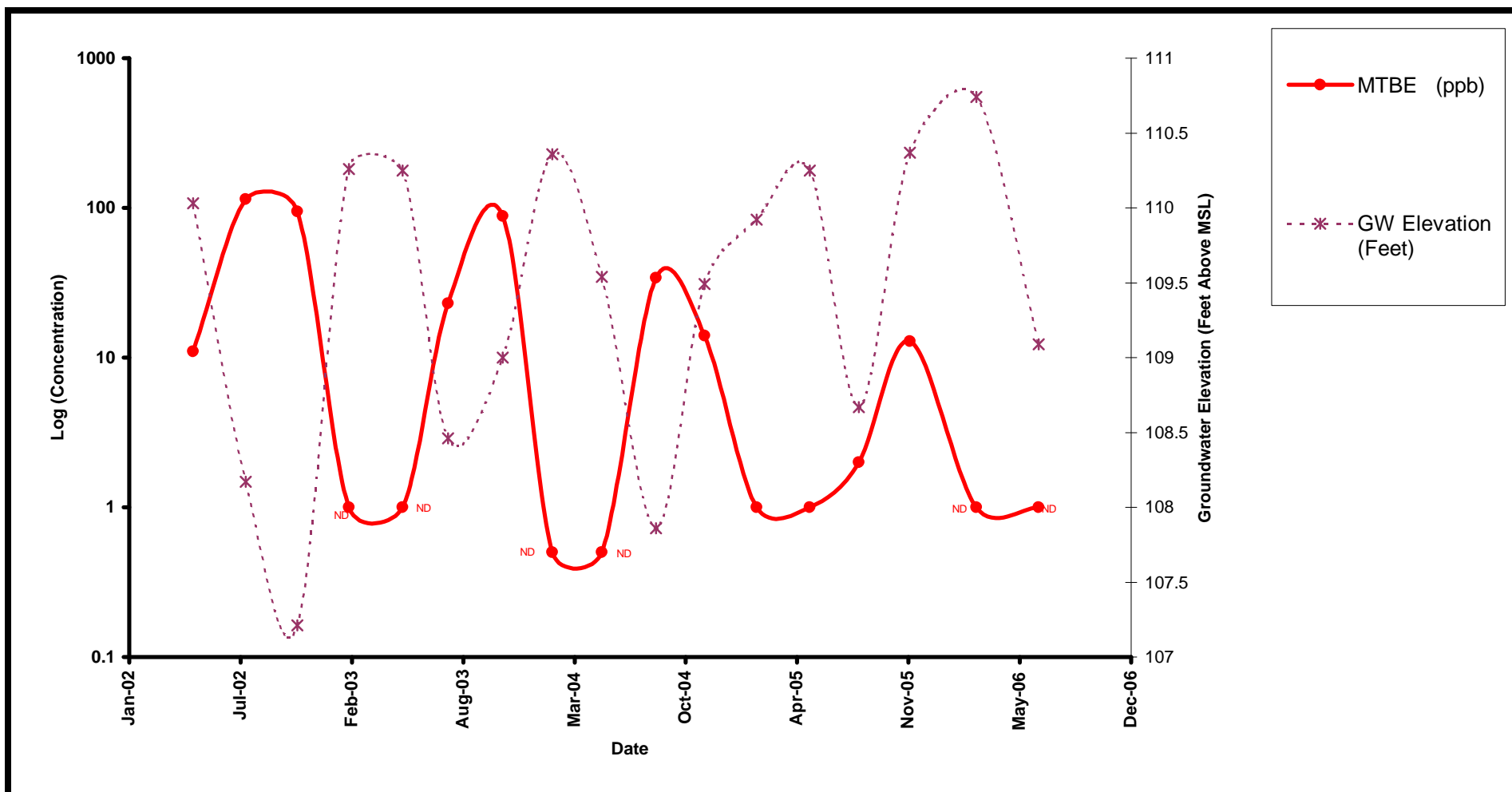
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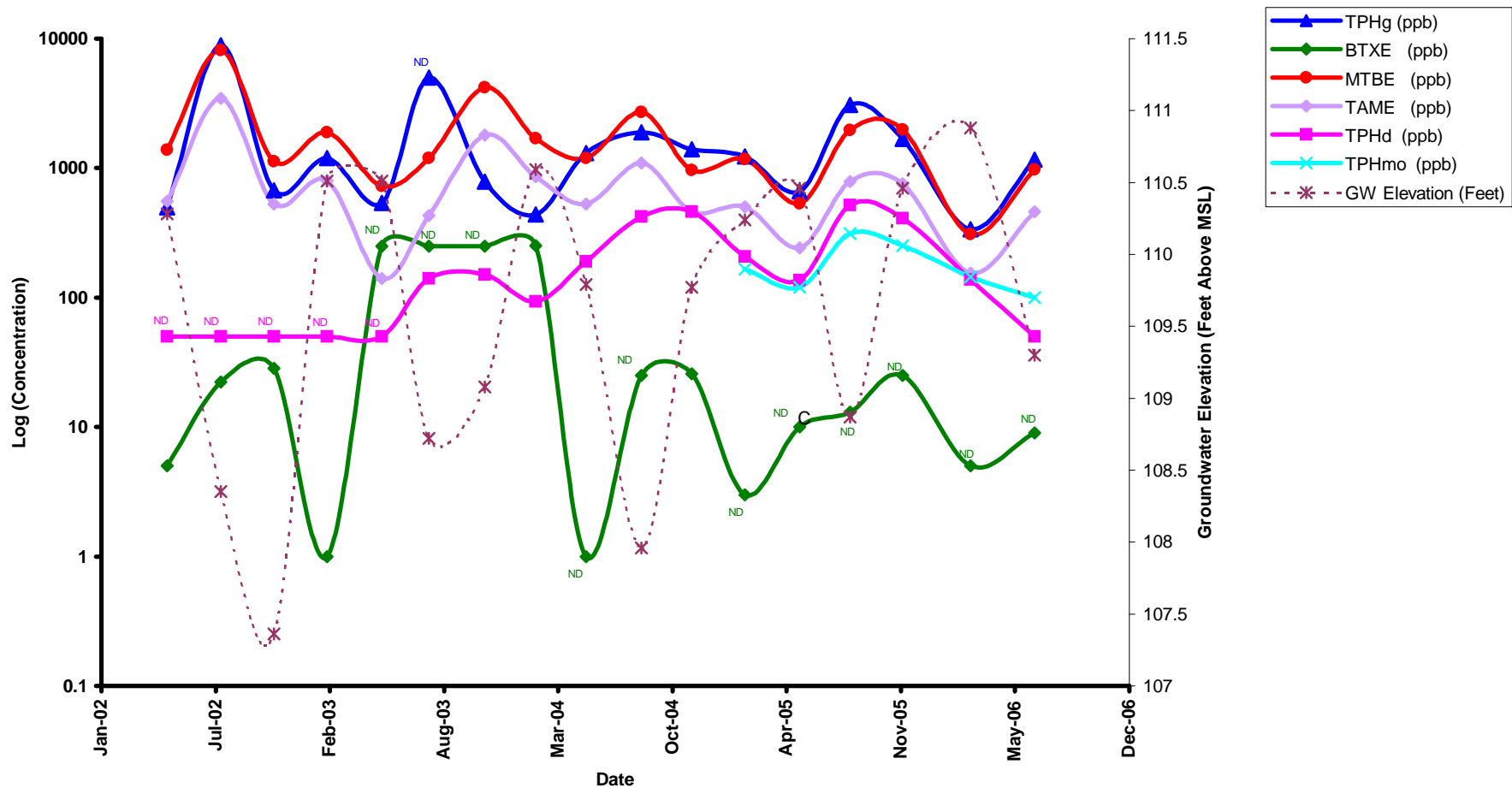
	GROUNDWATERFLOW DIRECTION & GRADIENT			Figure
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	GROUNDWATER ANALYTICAL RESULTS			Figure
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	MW-1 HYDROCARBON CONCENTRATIONS VS. TIME			Figure
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**MW-2 HYDROCARBON
 CONCENTRATIONS VS. TIME**

Big Foot Gas
 2801 Central Avenue
 McKinleyville, California 95519

Project No.

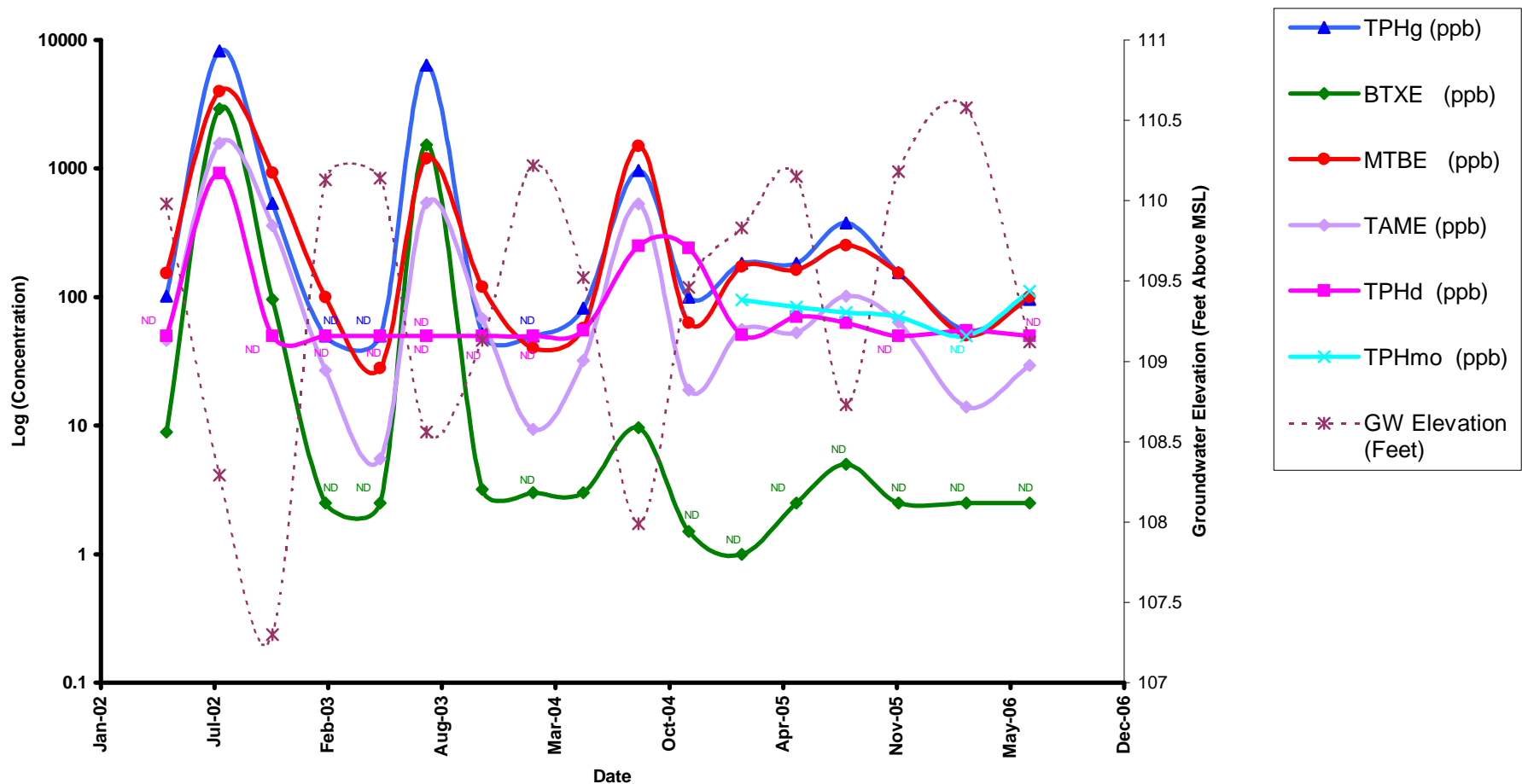
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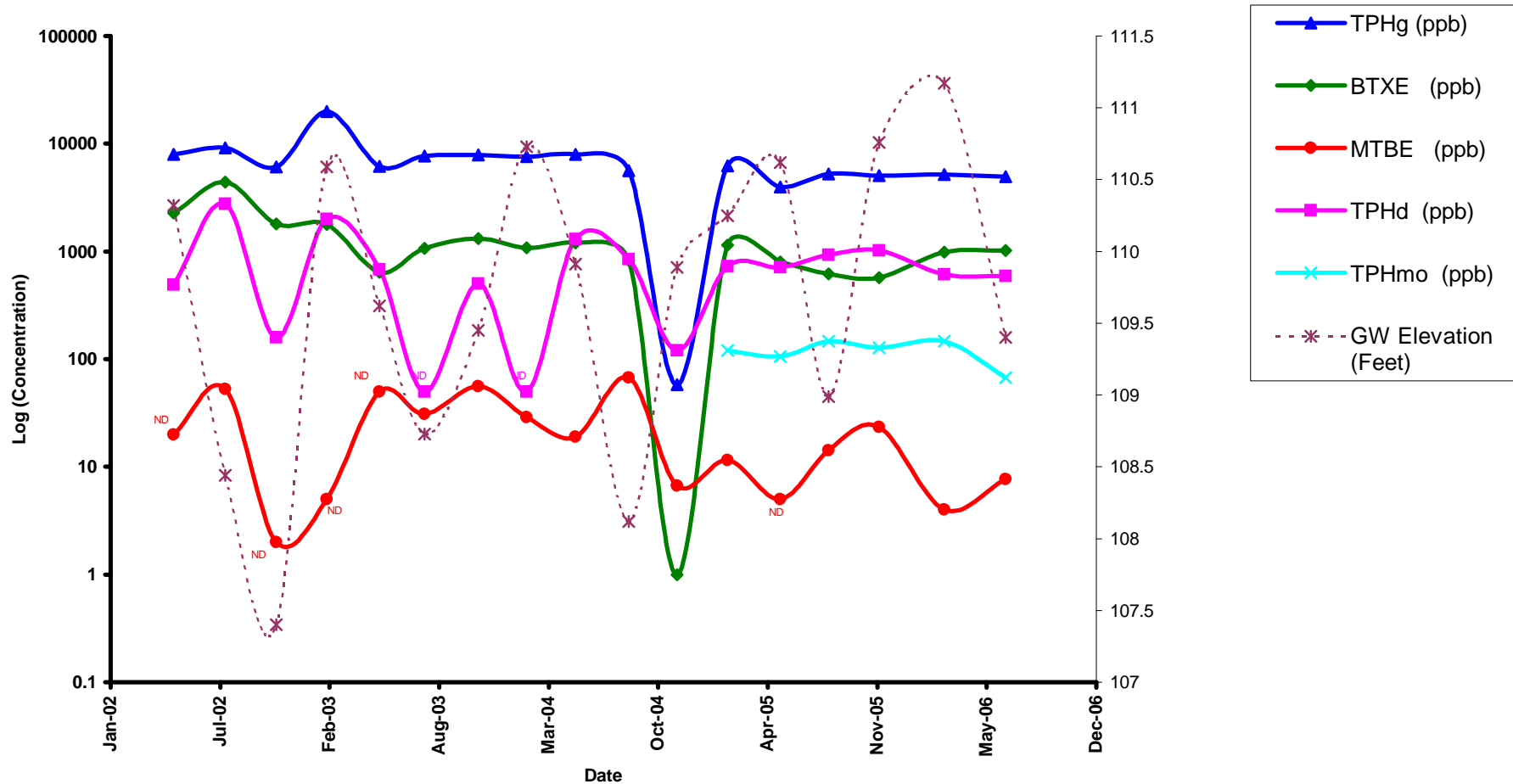
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Figure

7





MW-4 HYDROCARBON CONCENTRATIONS VS. TIME

Big Foot Gas
 2801 Central Avenue
 McKinleyville, California 95519

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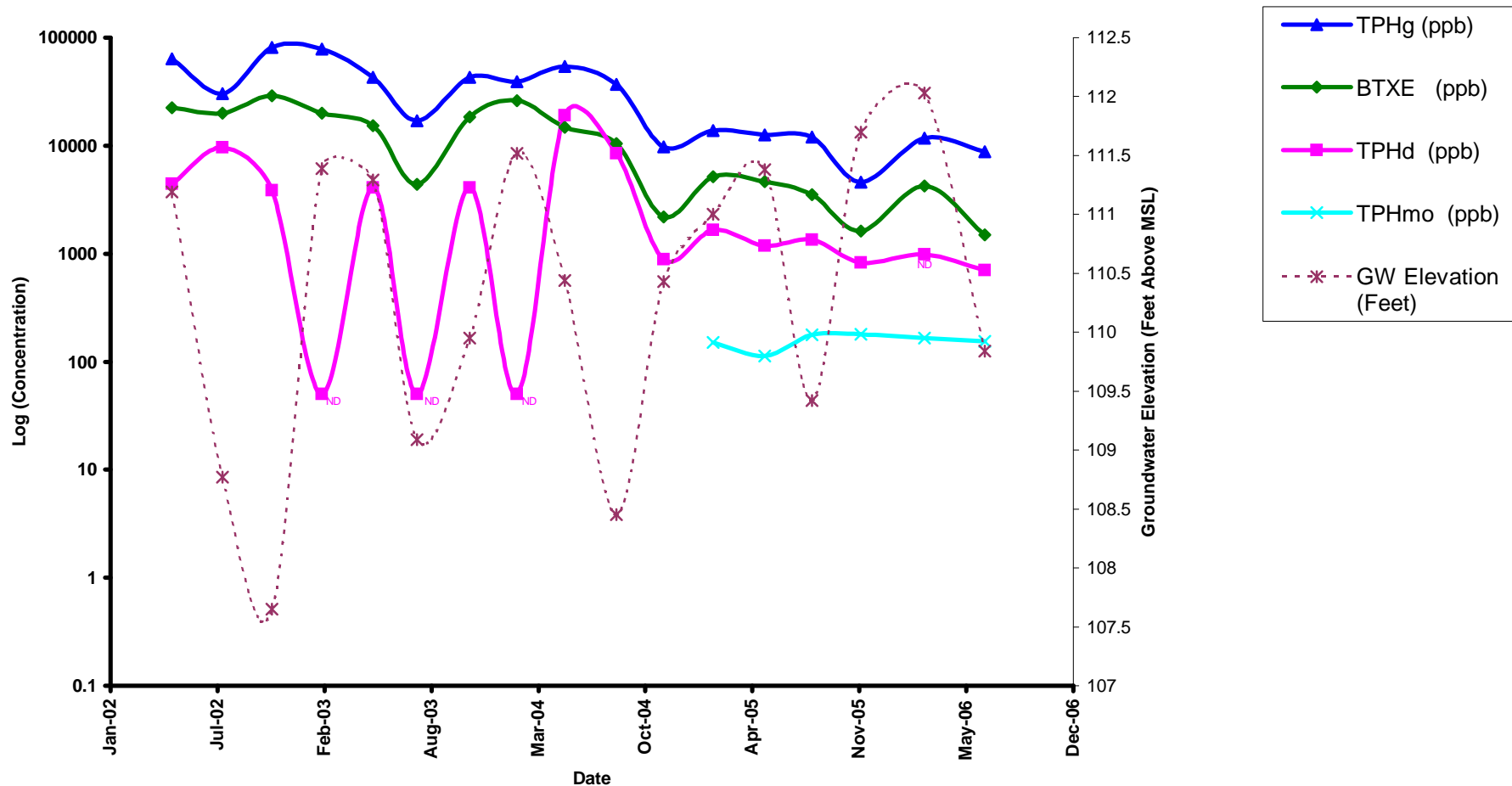
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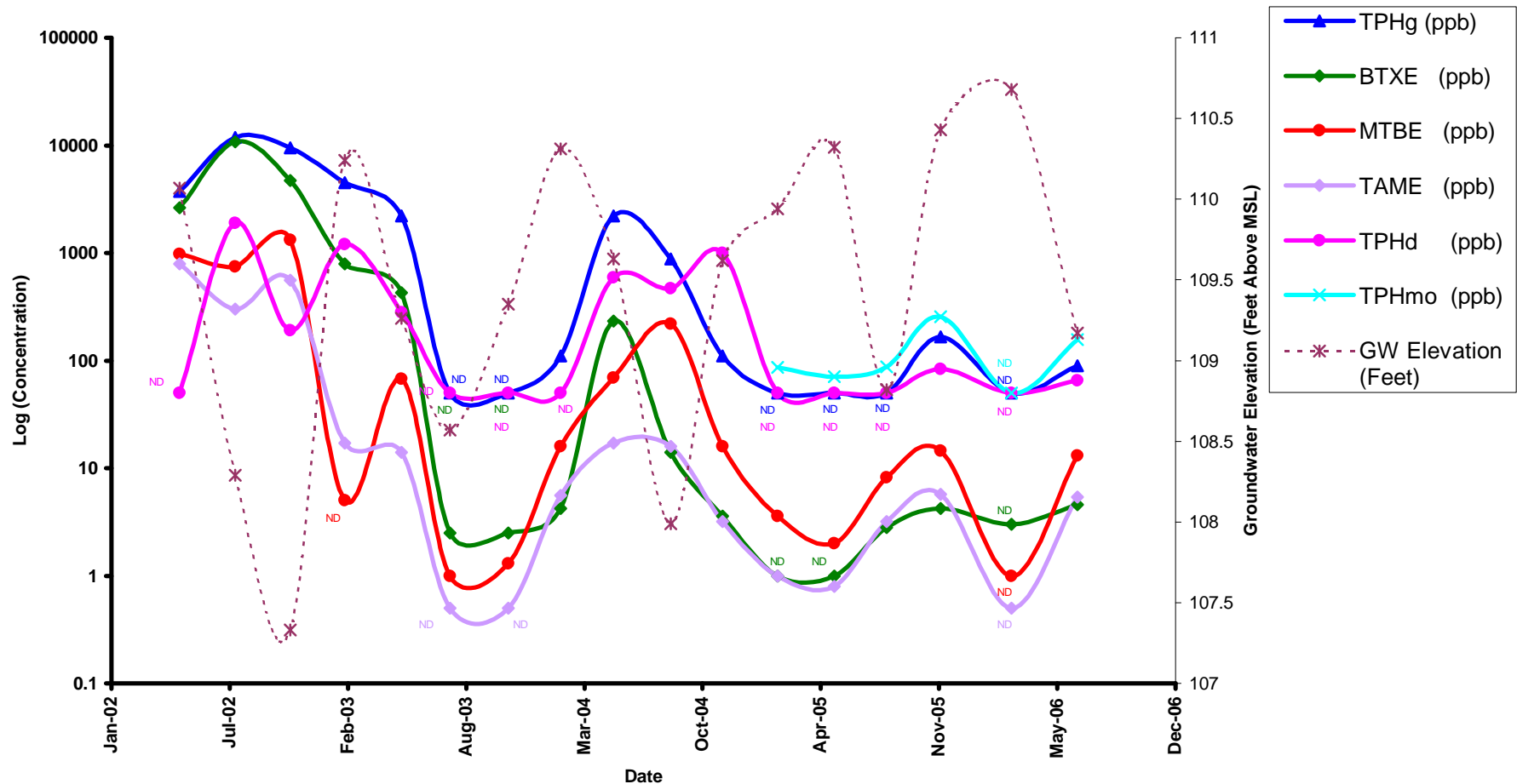
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Figure

9



	MW-5 HYDROCARBON CONCENTRATIONS VS. TIME			Figure
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MW-6 HYDROCARBON CONCENTRATIONS VS. TIME

Big Foot Gas
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Figure

11

Tables & Chart

Table 1
Groundwater Analytical Results
 Big Foot Gas
 2801 Central Avenue
 McKinleyville, California 95519

Sample ID	Sample Location	Sample Date	TPH _g (ppb)	Benzene (ppb)	Toluene (ppb)	Xylenes (ppb)	Ethylbenzene (ppb)	MTBE (ppb)	DIPE (ppb)	TAME (ppb)	ETBE (ppb)	TBA (ppb)	TPH _d (ppb)	TPH _{mo} (ppb)	TPHs (ppb)	Methanol (ppb)	Ethanol (ppb)	Dissolved Pb (ppb)
Test Pit #1	TP-1	5/8/1991	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Test Pit #2	TP-2	5/8/1991	ND < 50	----	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	----	----	----	----	----	----	----	----	----	----
Test Pit #3	TP-3	5/8/1991	----	----	----	----	----	----	----	----	----	----	----	----	ND < 50	----	----	----
Premium	Premium	7/11/1991	320,000	----	54,000	4,800	19,000	----	----	----	----	----	----	----	----	----	----	----
Kerosene	Kerosene	7/11/1991	----	----	----	----	----	----	----	----	----	----	----	----	1,500	----	----	----
SPBFB-1	B-1	9/20/2000	ND < 50	ND < 0.50	ND < 0.50	2.8	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50	ND < 5.0	----	----	----	ND < 50	22	ND < 20
SPBFB-2	B-2	9/20/2000	ND < 50	ND < 0.50	ND < 0.50	3.4	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50	ND < 5.0	----	----	----	ND < 50	70	ND < 20
SPBFB-3	B-3	9/20/2000	ND < 50	ND < 0.50	ND < 0.50	1.2	ND < 0.50	0.54	ND < 0.50	ND < 0.50	ND < 0.50	ND < 5.0	----	----	----	82	110	ND < 20
SPBFB-6	B-6	9/20/2000	ND < 50	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50	1.0	ND < 0.50	ND < 0.50	ND < 0.50	ND < 5.0	----	----	----	ND < 50	ND < 50	ND < 20
SPBFB-7	B-7	9/20/2000	6,400	660	110	440	380	260	ND < 2.0	4.0	ND < 2.0	67	----	----	----	ND < 200	ND < 20	ND < 20
SPBFB-8	B-8	9/20/2000	140	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50	580	ND < 0.50	85	ND < 0.50	ND < 5.0	----	----	----	ND < 50	ND < 5.0	ND < 20
SPBFB-9	B-9	9/20/2000	ND < 50	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50	180	ND < 0.50	9.9	ND < 0.50	26	----	----	----	ND < 50	16	ND < 20
SPBFB-10	B-10	9/20/2000	990	210	3.8	3.2	13	380	ND < 0.50	ND < 0.50	5.4	7.6	----	----	----	ND < 50	ND < 20	ND < 20
SBGW-11	B-11	4/22/2002	27,300	656	5,440	6,280	715	1,610	ND < 0.5	255	ND < 0.5	ND < 0.5	1,250	ND < 50	----	----	----	----
SBGW-13	B-13	4/22/2002	ND < 50	ND < 0.3	0.5	1.1	ND < 0.3	ND < 2.0	ND < 0.5	ND < 0.5	ND < 0.5	ND < 50	ND < 50	ND < 50	----	----	----	----
SBGW-14	B-14	4/22/2002	165	104	0.6	1	ND < 0.3	ND < 2.0	ND < 0.5	ND < 0.5	ND < 0.5	ND < 50	ND < 50	ND < 50	----	----	----	----
SBGW-15	B-15	4/22/2002	263	ND < 0.3	5.3	24.5	1.8	ND < 2.0	ND < 0.5	ND < 0.5	ND < 0.5	ND < 50	ND < 50	ND < 50	----	----	----	----
SBGW-16	B-16	4/22/2002	ND < 50	ND < 0.3	ND < 0.3	ND < 0.6	ND < 0.3	ND < 2.0	ND < 0.5	ND < 0.5	ND < 0.5	ND < 50	ND < 50	ND < 50	----	----	----	----
SBGW-17	B-17	4/22/2002	ND < 25,000	ND < 150	ND < 150	ND < 300	ND < 150	ND < 1,000	ND < 250	ND < 250	ND < 250	ND < 25,000	298,000	ND < 50	----	----	----	----
SBGW-18	B-18	4/22/2002	ND < 50	ND < 0.3	1.0	2.6	ND < 0.3	2.1	ND < 0.5	ND < 0.5	ND < 0.5	ND < 50	ND < 50	ND < 50	----	----	----	----

notes:

TPH_g: Total petroleum hydrocarbons as gasoline.
 MTBE: Methyl tertiary butyl ether
 DIPE: Diisopropyl Ether
 TAME: Tertiary amyl methyl ether
 ETBE: Ethyl tertiary butyl ether
 TPH_d: Total petroleum hydrocarbons as diesel

TPH_{mo}: Total petroleum hydrocarbons as motor oil
 TBA: Tertiary butanol
 TPHs: Total petroleum hydrocarbons as solvent
 ppb: parts per billion = µg/l = .001 mg/l = 0.001 ppm.
 ND: Not detected at or below the method detection limit as shown.

Table 2 (cont.)
Soil Analytical Results
 Big Foot Gas
 2801 Central Avenue
 McKinleyville, California 95519

Sample ID	Sample Location	Sample Date	TPHg (ppm)	Benzene (ppm)	Toluene (ppm)	Xylenes (ppm)	Ethylbenzene (ppm)	MTBE (ppm)	DIPE (ppm)	TAME (ppm)	ETBE (ppm)	TBA (ppm)	TPHd (ppm)	TPHs (ppm)	Lead (ppm)
SPBFB-8 @ 7.5'	B-8	9/20/2000	ND < 1.0	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.050	----	----	----	----	----	----	----
SPBFB-9 @ 10'	B-9	9/20/2000	ND < 1.0	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.050	----	----	----	----	----	----	----
SPBFB-10 @ 5'	B-10	9/20/2000	1.1	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.050	----	----	----	----	----	----	----
SPBFB-10 @ 6"	B-10	9/20/2000	1,400	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.0050	ND < 0.050	----	----	----	----	----	----	----
SPBFB-10 @ 9'	B-10	9/20/2000	ND < 1.0	0.014	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.050	----	----	----	----	----	----	----
SB-11 @ 4'	B-11	4/22/2002	2.342	0.068	0.447	0.995	0.116	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 5	----	----	----
SB-13 @ 4'	B-13	4/22/2002	ND < 0.060	ND < 0.005	ND < 0.005	ND < 0.015	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 5	----	----	----
SB-13 @ 8'	B-13	4/22/2002	ND < 0.060	ND < 0.005	ND < 0.005	ND < 0.015	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 5	----	----	----
SB-13 @ 12'	B-13	4/22/2002	ND < 0.060	ND < 0.005	ND < 0.005	ND < 0.015	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 5	----	----	----
SB-14 @ 4'	B-14	4/22/2002	ND < 0.060	ND < 0.005	ND < 0.005	ND < 0.015	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 5	----	----	----
SB-14 @ 8'	B-14	4/22/2002	1.99	ND < 0.005	ND < 0.005	ND < 0.015	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 5	----	----	----
SB-14 @ 12'	B-14	4/22/2002	0.625	ND < 0.005	ND < 0.005	ND < 0.015	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 5	----	----	----
SB-15 @ 4'	B-15	4/22/2002	ND < 0.060	ND < 0.005	ND < 0.005	ND < 0.015	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 5	----	----	----
SB-15 @ 8'	B-15	4/22/2002	ND < 0.060	ND < 0.005	ND < 0.005	ND < 0.015	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 5	----	----	----
SB-15 @ 12'	B-15	4/22/2002	ND < 0.060	ND < 0.005	ND < 0.005	ND < 0.015	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 5	----	----	----
SB-16 @ 4'	B-16	4/22/2002	ND < 0.060	ND < 0.005	ND < 0.005	ND < 0.015	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 5	----	----	----
SB-16 @ 8'	B-16	4/22/2002	ND < 0.060	ND < 0.005	ND < 0.005	ND < 0.015	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 5	----	----	----
SB-16 @ 12'	B-16	4/22/2002	ND < 0.060	ND < 0.005	ND < 0.005	ND < 0.015	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 5	----	----	----
SB-17 @ 4'	B-17	4/22/2002	ND < 0.060	ND < 0.005	ND < 0.005	ND < 0.015	ND < 0.005	0.023	ND < 0.005	ND < 0.005	ND < 0.005	ND < 5	----	----	----
SB-17 @ 8'	B-17	4/22/2002	ND < 0.060	ND < 0.005	ND < 0.005	ND < 0.015	ND < 0.005	0.007	ND < 0.005	ND < 0.005	ND < 0.005	ND < 5	----	----	----
SB-17 @ 12'	B-17	4/22/2002	ND < 0.060	ND < 0.005	ND < 0.005	ND < 0.015	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 5	----	----	----
SB-18 @ 4'	B-18	4/22/2002	ND < 0.060	ND < 0.005	ND < 0.005	ND < 0.015	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 5	----	----	----
SB-18 @ 8'	B-18	4/22/2002	ND < 0.060	ND < 0.005	ND < 0.005	ND < 0.015	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 5	----	----	----
SB-18 @ 12'	B-18	4/22/2002	ND < 0.060	ND < 0.005	ND < 0.005	ND < 0.015	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.005	ND < 5	----	----	----

Notes:

TPHg: Total petroleum hydrocarbons as gasoline
 MTBE: Methyl tertiary butyl ether
 TAME: Tertiary amyl methyl ether
 DIPE: Diisopropyl ether
 TPHs: Total petroleum hydrocarbons as solvent

ETBE: Ethyl tertiary butyl ether
 TBA: Tertiary butanol
 ppm: parts per million = $\mu\text{g/g} = \text{mg/kg} = 1000\mu\text{g/kg}$.
 ND: Not detected at or below the method detection limit as shown.

Table 3
Water Levels
 Big Foot Gas
 2801 Central Avenue
 McKinleyville, California 95519

Sample Location	Date	Depth to Bottom/ Feet BGS	Survey Height/ Feet Above MSL	Depth to Water/ Feet BGS	Adjusted Elevation/ Feet Above MSL
MW-1	5/1/2002	11.66	111.57	1.54	110.03
	5/30/2002	11.67	111.57	2.43	109.14
	7/3/2002	11.63	111.57	2.65	108.92
	8/3/2002	11.62	111.57	3.40	108.17
	9/4/2002	11.64	111.57	3.90	107.67
	10/4/2002	11.70	111.57	4.25	107.32
	11/4/2002	11.65	111.57	4.36	107.21
	12/2/2002	12.63	111.57	3.61	107.96
	1/6/2003	11.66	111.57	1.22	110.35
	2/5/2003	11.67	111.57	1.31	110.26
	3/7/2003	11.67	111.57	1.67	109.90
	4/8/2003	11.67	111.57	1.00	110.57
	5/12/2003	11.67	111.57	1.32	110.25
	8/2/2003	11.88	111.57	3.11	108.46
	11/8/2003	11.88	111.57	2.57	109.00
	2/5/2004	11.88	111.57	1.21	110.36
	5/4/2004	11.88	111.57	2.03	109.54
	8/9/2004	11.82	111.57	3.71	107.86
	11/5/2004	11.83	111.57	2.08	109.49
	2/6/2005	11.83	111.57	1.65	109.92
	5/13/2005	11.81	111.57	1.32	110.25
	8/9/2005	11.90	111.57	2.90	108.67
	11/9/2005	11.81	111.57	1.20	110.37
	3/8/2006	11.88	111.57	0.83	110.74
	6/28/2006	12.58	111.57	2.48	109.09
MW-2	5/1/2002	12.00	113.03	2.75	110.28
	5/30/2002	11.85	113.03	3.63	109.40
	7/3/2002	11.87	113.03	4.20	108.83
	8/3/2002	11.87	113.03	4.68	108.35
	9/4/2002	11.87	113.03	5.22	107.81
	10/4/2002	9.71	113.03	5.64	107.39
	11/4/2002	11.82	113.03	5.67	107.36
	12/2/2002	11.83	113.03	4.83	108.20
	1/6/2003	11.86	113.03	2.46	110.57
	2/5/2003	10.22	113.03	2.52	110.51
	3/7/2003	11.72	113.03	2.71	110.32
	4/8/2003	11.72	113.03	2.22	110.81
	5/12/2003	11.72	113.03	2.53	110.50
	8/2/2003	11.98	113.03	4.31	108.72
	11/8/2003	11.98	113.03	3.95	109.08
	2/5/2004	11.98	113.03	2.44	110.59
	5/4/2004	11.98	113.03	3.24	109.79
	8/9/2004	11.97	113.03	5.07	107.96
	11/5/2004	12.04	113.03	3.26	109.77
	2/6/2005	12.04	113.03	2.79	110.24
	5/13/2005	9.12	113.03	2.57	110.46
	8/9/2005	9.14	113.03	4.16	108.87
	11/9/2005	11.97	113.03	2.57	110.46
	3/8/2006	9.13	113.03	2.15	110.88
	6/28/2006	12.05	113.03	3.73	109.30

Table 3 (cont.)
Water Levels
 Big Foot Gas
 2801 Central Avenue
 McKinleyville, Californian 95519

Sample Location	Date	Depth to Bottom/ Feet BGS	Survey Height/ Feet Above MSL	Depth to Water/ Feet BGS	Adjusted Elevation/ Feet Above MSL
MW-3	5/1/2002	11.39	112.13	2.15	109.98
	5/30/2002	11.24	112.13	2.94	109.19
	7/3/2002	11.25	112.13	3.41	108.72
	8/3/2002	11.24	112.13	3.84	108.29
	9/4/2002	11.21	112.13	4.32	107.81
	10/4/2002	11.22	112.13	4.69	107.44
	11/4/2002	11.22	112.13	4.83	107.30
	12/2/2002	11.23	112.13	4.02	108.11
	1/6/2003	11.25	112.13	1.91	110.22
	2/5/2003	11.25	112.13	2.00	110.13
	3/7/2003	11.29	112.13	2.30	109.83
	4/8/2003	11.29	112.13	1.69	110.44
	5/12/2003	11.29	112.13	1.99	110.14
	8/2/2003	11.46	112.13	3.57	108.56
	11/8/2003	11.46	112.13	3.00	109.13
	2/5/2004	11.46	112.13	1.91	110.22
	5/4/2004	11.46	112.13	2.61	109.52
	8/9/2004	11.46	112.13	4.14	107.99
	11/5/2004	11.40	112.13	2.67	109.46
	2/6/2005	11.40	112.13	2.30	109.83
	5/13/2005	11.42	112.13	1.98	110.15
	8/9/2005	11.50	112.13	3.40	108.73
	11/9/2005	11.40	112.13	1.95	110.18
	3/8/2006	11.67	112.13	1.55	110.58
	6/28/2006	12.36	112.13	3.01	109.12
MW-4	5/1/2002	11.34	112.76	2.44	110.32
	5/30/2002	11.14	112.76	3.28	109.48
	7/3/2002	11.11	112.76	3.84	108.92
	8/3/2002	11.14	112.76	4.32	108.44
	9/4/2002	11.12	112.76	4.86	107.90
	10/4/2002	11.12	112.76	5.24	107.52
	11/4/2002	11.05	112.76	5.36	107.40
	12/2/2002	11.08	112.76	4.51	108.25
	1/6/2003	11.05	112.76	2.04	110.72
	2/5/2003	11.06	112.76	2.17	110.59
	3/7/2003	11.24	112.76	2.51	110.25
	4/8/2003	11.24	112.76	1.69	111.07
	5/12/2003	11.24	112.76	3.14	109.62
	8/2/2003	11.32	112.76	4.03	108.73
	11/8/2003	11.32	112.76	3.31	109.45
	2/5/2004	11.32	112.76	2.03	110.73
	5/4/2004	11.32	112.76	2.85	109.91
	8/9/2004	11.32	112.76	4.64	108.12
	11/5/2004	11.20	112.76	2.87	109.89
	2/6/2005	11.27	112.76	2.51	110.25
	5/13/2005	11.24	112.76	2.14	110.62
	8/9/2005	11.49	112.76	3.77	108.99
	11/9/2005	11.23	112.76	2.00	110.76
	3/8/2006	12.61	112.76	1.59	111.17
	6/28/2006	12.60	112.76	3.36	109.40

Table 3 (cont.)
Water Levels
 Big Foot Gas
 2801 Central Avenue
 McKinleyville, California 95519

Sample Location	Date	Depth to Bottom/ Feet BGS	Survey Height/ Feet Above MSL	Depth to Water/ Feet BGS	Adjusted Elevation/ Feet Above MSL
MW-5	5/1/2002	11.10	112.62	1.43	111.19
	5/30/2002	11.11	112.62	2.71	109.91
	7/3/2002	11.12	112.62	3.31	109.31
	8/3/2002	11.14	112.62	3.85	108.77
	9/4/2002	11.12	112.62	4.37	108.25
	10/4/2002	11.15	112.62	4.85	107.77
	11/4/2002	11.15	112.62	4.97	107.65
	12/2/2002	11.13	112.62	4.02	108.60
	1/6/2003	11.15	112.62	1.11	111.51
	2/5/2003	11.18	112.62	1.23	111.39
	3/7/2003	11.15	112.62	1.70	110.92
	4/8/2003	11.15	112.62	0.95	111.67
	5/12/2003	11.15	112.62	1.33	111.29
	8/2/2003	11.36	112.62	3.53	109.09
	11/8/2003	11.36	112.62	2.67	109.95
	2/5/2004	11.36	112.62	1.10	111.52
	5/4/2004	11.36	112.62	2.18	110.44
	8/9/2004	11.35	112.62	4.17	108.45
	11/5/2004	11.34	112.62	2.19	110.43
	2/6/2005	11.32	112.62	1.62	111.00
	5/13/2005	11.30	112.62	1.24	111.38
	8/9/2005	11.20	112.62	3.20	109.42
	11/9/2005	11.30	112.62	0.92	111.70
	3/8/2006	11.47	112.62	0.59	112.03
	6/28/2006	11.80	112.62	2.78	109.84
MW-6	5/1/2002	10.92	112.38	2.31	110.07
	5/30/2002	10.91	112.38	3.13	109.25
	7/3/2002	10.91	112.38	3.64	108.74
	8/3/2002	10.92	112.38	4.09	108.29
	9/4/2002	10.93	112.38	4.61	107.77
	10/4/2002	10.96	112.38	4.99	107.39
	11/4/2002	10.92	112.38	5.05	107.33
	12/2/2002	10.93	112.38	4.27	108.11
	1/6/2003	10.93	112.38	2.05	110.33
	2/5/2003	10.95	112.38	2.14	110.24
	3/7/2003	10.95	112.38	2.46	109.92
	4/8/2003	10.95	112.38	1.82	110.56
	5/12/2003	10.95	112.38	3.12	109.26
	8/2/2003	11.13	112.38	3.81	108.57
	11/8/2003	11.13	112.38	3.03	109.35
	2/5/2004	11.13	112.38	2.07	110.31
	5/4/2004	11.13	112.38	2.75	109.63
	8/9/2004	11.18	112.38	4.39	107.99
	11/5/2004	11.03	112.38	2.76	109.62
	2/6/2005	11.04	112.38	2.44	109.94
	5/13/2005	10.95	112.38	2.06	110.32
	8/9/2005	11.00	112.38	3.56	108.82
	11/9/2005	10.95	112.38	1.95	110.43
	3/8/2006	10.94	112.38	1.70	110.68
	6/28/2006	12.24	112.38	3.21	109.17

Notes:
 Bgs: Below Ground Surface
 MSL: Mean Sea Level

Table 4
Groundwater Analytical Results from Monitoring Wells
 Big Foot Gas
 2801 Central Avenue
 McKinleyville, California 95519

Sample Location	Annual Quarter	Sample Date	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Xylenes (ppb)	Ethylbenzene (ppb)	MTBE (ppb)	DIPE (ppb)	TAME (ppb)	ETBE (ppb)	TBA (ppb)	TPHd (ppb)	TPHmo (ppb)	EDC (ppb)	EDB (ppb)
MW-1	2nd Quarter	5/1/2002	ND < 50	ND < 0.3	0.3	ND < 0.6	ND < 0.3	10.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 100	ND < 50	ND < 50	----	----
	3rd Quarter	8/3/2002	91	ND < 0.3	ND < 0.3	ND < 0.6	ND < 0.3	114	ND < 0.5	7.5	ND < 0.5	ND < 100	ND < 50	ND < 50	----	----
	4th Quarter	11/4/2002	90.4	ND < 0.3	ND < 0.3	ND < 0.6	ND < 0.3	94.7	ND < 0.5	7.6	ND < 0.5	ND < 50	ND < 50	ND < 50	ND < 0.5	ND < 0.5
	1st Quarter	2/5/2003	ND < 50	ND < 0.5	ND < 0.5	ND < 1	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5.0	ND < 50	ND < 500	ND < 0.5	ND < 0.5
	2nd Quarter	5/12/2003	ND < 50	ND < 0.5	ND < 0.5	ND < 1	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5.0	ND < 50	ND < 500	ND < 0.5	ND < 0.5
	3rd Quarter	8/2/2003	ND < 50	ND < 0.5	ND < 0.5	ND < 1.0	ND < 0.5	23	ND < 0.5	1.0	ND < 0.5	ND < 5.0	ND < 50	ND < 500	ND < 0.5	ND < 0.5
	4th Quarter	11/8/2003	ND < 50	ND < 0.5	ND < 0.5	ND < 1.0	ND < 0.5	88	ND < 0.5	3.5	ND < 0.5	ND < 5.0	ND < 50	ND < 500	ND < 0.5	ND < 0.5
	1st Quarter	2/5/2004	ND < 50	ND < 0.5	ND < 0.5	ND < 1.0	ND < 0.5	0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5.0	ND < 50	ND < 500	ND < 0.5	ND < 0.5
	2nd Quarter	5/4/2004	ND < 50	ND < 0.5	ND < 0.5	ND < 1.0	ND < 0.5	0.5	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5.0	ND < 50	ND < 500	ND < 0.5	ND < 0.5
	3rd Quarter	8/9/2004	ND < 50	ND < 0.5	ND < 0.5	ND < 1.5	ND < 0.5	34.0	ND < 0.5	1.2	ND < 0.5	ND < 5.0	160	ND < 500	ND < 0.5	ND < 0.5
	4th Quarter	11/5/2004	ND < 50	ND < 0.5	ND < 0.5	ND < 1.5	ND < 0.5	14	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5.0	ND < 50	ND < 500	ND < 0.5	ND < 0.5
	1st Quarter	2/6/2005	ND < 50	ND < 0.5	ND < 0.5	ND < 1.0	ND < 0.5	ND < 1.0	ND < 0.5	ND < 0.5	ND < 0.5	ND < 50.0	ND < 50	ND < 50	----	----
	2nd Quarter	5/13/2005	ND < 50	ND < 0.5	ND < 0.5	ND < 1.0	ND < 0.5	ND < 1.0	ND < 0.5	ND < 0.5	ND < 0.5	ND < 50.0	ND < 50	ND < 50	----	----
	3rd Quarter	8/9/2005	ND < 50.0	ND < 0.5	ND < 0.5	ND < 1.0	ND < 0.5	1.6	ND < 0.5	ND < 0.5	ND < 0.5	ND < 50.0	ND < 50	ND < 50	----	----
	4th Quarter	11/9/2005	ND < 50.0	ND < 0.5	ND < 0.5	ND < 1.0	ND < 0.5	12.9	ND < 0.5	0.5	ND < 0.5	ND < 50.0	ND < 50	ND < 50	----	----
	1st Quarter	3/8/2006	ND < 50.0	ND < 0.5	ND < 0.5	ND < 1.0	ND < 0.5	ND < 1.0	ND < 0.5	ND < 0.5	ND < 0.5	ND < 50.0	ND < 50	ND < 50	----	----
	2nd Quarter	6/28/2006	ND < 50.0	ND < 0.5	ND < 0.5	ND < 1.0	ND < 0.5	ND < 1.0	ND < 0.5	ND < 0.5	ND < 0.5	ND < 50.0	ND < 50	100	----	----
MW-2	2nd Quarter	5/1/2002	498	ND < 0.3	ND < 0.3	3.9	1.3	1,380	ND < 0.5	552	ND < 0.5	ND < 100	ND < 50	ND < 50	----	----
	3rd Quarter	8/3/2002	8,870	15.7	0.5	3.9	2.2	8,160	ND < 0.5	3,460	ND < 0.5	ND < 100	ND < 50	ND < 50	----	----
	4th Quarter	11/4/2002	674	28.3	ND < 0.3	ND < 0.6	ND < 0.3	1,130	ND < 0.5	526	ND < 0.5	ND < 50	ND < 50	ND < 50	ND < 0.5	ND < 0.5
	1st Quarter	2/5/2003	1,200	0.5	ND < 0.5	ND < 1	ND < 0.5	1,900	ND < 0.5	800	4.9	690	ND < 50	ND < 500	ND < 0.5	ND < 0.5
	2nd Quarter	5/12/2003	540	ND < 50	ND < 50	ND < 100	ND < 50	730	ND < 50	140	ND < 50	ND < 500	ND < 50	ND < 500	ND < 50	ND < 50
	3rd Quarter	8/2/2003	ND < 5,000	ND < 50	ND < 50	ND < 100	ND < 50	1,200	ND < 50	430	ND < 50	ND < 500	140	ND < 500	ND < 50	ND < 50
	4th Quarter	11/8/2003	790	ND < 50	ND < 50	ND < 100	ND < 50	4,200	ND < 50	1,800	ND < 50	ND < 500	150	ND < 500	ND < 50	ND < 50
	1st Quarter	2/5/2004	440	ND < 50	85	120	ND < 50	1,700	ND < 50	860	ND < 50	ND < 500	93	ND < 500	ND < 50	ND < 50
	2nd Quarter	5/4/2004	1,300	ND < 5.0	ND < 5.0	ND < 10.0	ND < 5.0	1,200	ND < 50	530	ND < 50	ND < 500	190	ND < 500	ND < 50	ND < 50
	3rd Quarter	8/9/2004	1,900	ND < 5.0	ND < 5.0	ND < 15.0	ND < 5.0	2,700	ND < 5.0	1,100	7.2	730	420	ND < 500	ND < 5.0	ND < 5.0
	4th Quarter	11/5/2004	1,400	5.8	ND < 5.0	ND < 15.0	ND < 5.0	970	ND < 5.0	460	ND < 5.0	230	160	ND < 500	ND < 5.0	ND < 5.0
	1st Quarter	2/6/2005	1,230	ND < 0.5	ND < 0.5	ND < 1.0	ND < 0.5	1,170	ND < 0.5	504	3.6	279	208	166	----	----
	2nd Quarter	5/13/2005	658	ND < 2.0	ND < 2.0	ND < 4.0	ND < 2.0	533	ND < 2.0	241	ND < 2.0	ND < 200	136	120	----	----
	3rd Quarter	8/9/2005	3,080	ND < 2.5	ND < 2.5	ND < 5.0	ND < 2.5	1,970	ND < 2.5	787	5.8	373	520	312	----	----
	4th Quarter	11/9/2005	1,680	ND < 5.0	ND < 5.0	ND < 10.0	ND < 5.0	1,980	ND < 5.0	760	5.7	ND < 500	408	253	----	----
	1st Quarter	3/8/2006	336	ND < 5.0	ND < 1.0	ND < 2.0	ND < 1.0	308	ND < 1.0	155	ND < 1.0	ND < 100	138	144	----	----
	2nd Quarter	6/28/2006	1,160	ND < 5.0	ND < 5.0	ND < 10.0	ND < 5.0	979	ND < 5.0	459	ND < 5.0	ND < 500	125	127	----	----

Table 4 (cont.)
Groundwater Analytical Results from Monitoring Wells
Big Foot Gas
2801 Central Avenue
McKinleyville, California 95519

Sample Location	Annual Quarter	Sample Date	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Xylenes (ppb)	Ethylbenzene (ppb)	MTBE (ppb)	DIPE (ppb)	TAME (ppb)	ETBE (ppb)	TBA (ppb)	TPHd (ppb)	TPHmo (ppb)	EDC (ppb)	EDB (ppb)
MW-3	2nd Quarter	5/1/2002	102	2.9	ND < 0.3	5.0	0.8	153	ND < 0.5	46.3	ND < 0.5	ND < 100	ND < 50	ND < 50	----	----
	3rd Quarter	8/3/2002	8,260	383	145	1,970	420	4,000	ND < 0.5	1,580	ND < 0.5	ND < 100	916	ND < 50	----	----
	4th Quarter	11/4/2002	537	30.8	0.7	39.5	24.9	928	ND < 0.5	358	ND < 0.5	ND < 50	ND < 50	ND < 50	ND < 0.5	ND < 0.5
	1st Quarter	2/5/2003	ND < 50	ND < 0.5	ND < 0.5	ND < 1	ND < 0.5	100	ND < 0.5	27	ND < 0.5	17	ND < 50	ND < 500	1.6	ND < 0.5
	2nd Quarter	5/12/2003	ND < 50	ND < 0.5	ND < 0.5	ND < 1	ND < 0.5	28	ND < 0.5	5.5	ND < 0.5	ND < 5.0	ND < 50	ND < 500	1.2	ND < 0.5
	3rd Quarter	8/2/2003	6,400	75	ND < 5.0	1,000	460	1,200	ND < 5.0	540	ND < 5.0	530	ND < 50	ND < 500	ND < 5.0	ND < 5.0
	4th Quarter	11/8/2003	52	ND < 0.5	ND < 0.5	1.2	0.5	120	ND < 0.5	68	ND < 0.5	ND < 5.0	ND < 50	ND < 500	ND < 0.5	ND < 0.5
	1st Quarter	2/5/2004	ND < 50	ND < 0.5	ND < 0.5	ND < 1	ND < 0.5	40	ND < 0.5	9.4	ND < 0.5	ND < 5.0	ND < 50	ND < 500	0.9	ND < 0.5
	2nd Quarter	5/4/2004	82	ND < 0.5	ND < 0.5	0.5	ND < 0.5	57	ND < 0.5	32	ND < 0.5	ND < 5.0	55	ND < 500	ND < 0.5	ND < 0.5
	3rd Quarter	8/9/2004	970	6.0	ND < 0.5	ND < 1.5	3.6	1,500	ND < 0.5	530	ND < 0.5	90	250	ND < 500	1.5	ND < 0.5
	4th Quarter	11/5/2004	100	ND < 0.5	ND < 0.5	ND < 1.5	ND < 0.5	63	ND < 0.5	19	ND < 0.5	ND < 5.0	240	ND < 500	ND < 0.5	ND < 0.5
	1st Quarter	2/6/2005	183	ND < 0.5	ND < 0.5	ND < 1.0	ND < 0.5	172	ND < 0.5	56.1	ND < 0.5	ND < 50	51	95	----	----
	2nd Quarter	5/13/2005	183	ND < 1.2	ND < 1.2	ND < 2.5	ND < 1.2	163	ND < 1.2	52.6	ND < 1.2	ND < 125	70	84	----	----
	3rd Quarter	8/9/2005	379	ND < 1.0	ND < 1.0	ND < 2.0	ND < 1.0	252	ND < 1.0	102	ND < 1.0	ND < 100	63	76	----	----
	4th Quarter	11/9/2005	155	ND < 0.5	ND < 0.5	ND < 1.0	ND < 0.5	154	ND < 0.5	63.5	ND < 0.5	ND < 50.0	ND < 50	70	----	----
	1st Quarter	3/8/2006	54.8	ND < 0.5	ND < 0.5	ND < 1.0	ND < 0.5	50.5	ND < 0.5	14.0	ND < 0.5	ND < 50.0	55	ND < 50	----	----
	2nd Quarter	6/28/2006	96.1	ND < 0.5	ND < 0.5	ND < 1.0	ND < 0.5	99.5	ND < 0.5	29.5	ND < 0.5	ND < 50.0	ND < 50	111	----	----
MW-4	2nd Quarter	5/1/2002	7,970	157	356	1,270	483	ND < 20	ND < 5	ND < 5	ND < 5	ND < 1,000	489	ND < 50	----	----
	3rd Quarter	8/3/2002	9,150	193	720	2,430	1,080	53	ND < 15	ND < 15	ND < 15	ND < 5,000	2,770	ND < 50	----	----
	4th Quarter	11/4/2002	6,090	207	343	712	530	ND < 2.0	ND < 0.5	ND < 0.5	ND < 0.5	ND < 50	159	ND < 50	ND < 0.5	ND < 0.5
	1st Quarter	2/5/2003	20,000	170	120	890	600	ND < 5.0	ND < 5.0	ND < 5.0	ND < 5.0	ND < 50	2,000	ND < 500	ND < 5.0	ND < 5.0
	2nd Quarter	5/12/2003	6,200	96	77	248	220	ND < 50	ND < 50	ND < 50	ND < 50	ND < 500	680	ND < 500	ND < 50	ND < 50
	3rd Quarter	8/2/2003	7,700	130	59	406	470	31	ND < 5.0	20	ND < 5.0	ND < 50	ND < 50	ND < 500	ND < 5.0	ND < 5.0
	4th Quarter	11/8/2003	7,900	260	190	385	480	56	ND < 5.0	ND < 5.0	ND < 5.0	ND < 50	500	ND < 500	ND < 5.0	ND < 5.0
	1st Quarter	2/5/2004	7,600	180	110	334	460	29	ND < 5.0	ND < 5.0	ND < 5.0	ND < 50	ND < 50	ND < 500	ND < 5.0	ND < 5.0
	2nd Quarter	5/4/2004	8,000	130	140	504	420	19	ND < 5.0	ND < 5.0	ND < 5.0	ND < 50	1,300	ND < 500	ND < 5.0	ND < 5.0
	3rd Quarter	8/9/2004	5,600	120	44	302	360	67	ND < 5.0	13	ND < 5.0	ND < 50	850	ND < 500	ND < 5.0	ND < 5.0
	4th Quarter	11/5/2004	58	1.0	ND < 0.5	ND < 1.5	ND < 0.5	6.7	ND < 0.5	2.8	ND < 0.5	ND < 5.0	120	ND < 500	ND < 0.5	ND < 0.5
	1st Quarter	2/6/2005	6,230	83.5	120	602	343	11.5	ND < 2.0	ND < 2.0	ND < 2.0	ND < 200	729	121	----	----
	2nd Quarter	5/13/2005	3,950	31.4	80.4	493	193	ND < 5.0	ND < 2.5	ND < 2.5	ND < 2.5	ND < 250	708	106	----	----
	3rd Quarter	8/9/2005	5,270	59.5	53.2	299	210	14.2	ND < 1.2	1.9	ND < 1.2	ND < 125	929	147	----	----
	4th Quarter	11/9/2005	5,040	79.3	72.1	202	219	23.3	ND < 0.5	1.2	ND < 0.5	ND < 50	1,020	127	----	----
	1st Quarter	3/8/2006	5,150	45.4	98.5	607	229	4.0	ND < 1.0	ND < 1.0	ND < 1.0	ND < 100	610	147	----	----
	2nd Quarter	6/28/2006	4,970	55.8	99.9	735	130	7.7	ND < 1.0	ND < 1.0	ND < 1.0	ND < 100	593	67	----	----

Table 4 (cont.)
Groundwater Analytical Results from Monitoring Wells
 Big Foot Gas
 2801 Central Avenue
 McKinleyville, California 95519

Sample Location	Annual Quarter	Sample Date	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Xylenes (ppb)	Ethylbenzene (ppb)	MTBE (ppb)	DIPE (ppb)	TAME (ppb)	ETBE (ppb)	TBA (ppb)	TPHd (ppb)	TPHmo (ppb)	EDC (ppb)	EDB (ppb)
MW-5	2nd Quarter	5/1/2002	63,800	ND < 150	1,270	19,500	1,720	ND < 1,000	ND < 250	ND < 250	ND < 250	ND < 50,000	4,420	396	----	----
	3rd Quarter	8/3/2002	30,500	ND < 15	486	17,700	1,760	ND < 25	ND < 15	ND < 15	ND < 15	ND < 5,000	9,630	ND < 50	----	----
	4th Quarter	11/4/2002	81,000	789	ND < 300	24,600	3,710	2,330	ND < 500	1,570	ND < 500	ND < 100,000	3,870	ND < 50	ND < 500	ND < 500
	1st Quarter	2/5/2003	78,000	51	1,600	16,800	1,600	ND < 50	ND < 50	ND < 50	ND < 50	ND < 500	ND < 50	ND < 500	ND < 50	ND < 50
	2nd Quarter	5/12/2003	43,000	ND < 50	790	13,400	1,200	ND < 50	ND < 50	ND < 50	ND < 50	ND < 500	4,100	ND < 500	ND < 50	ND < 50
	3rd Quarter	8/2/2003	17,000	ND < 50	120	3,890	400	ND < 50	ND < 50	ND < 50	ND < 50	ND < 500	ND < 50	ND < 500	ND < 50	ND < 50
	4th Quarter	11/8/2003	43,000	ND < 50	760	16,100	1,500	ND < 50	ND < 50	ND < 50	ND < 50	ND < 500	4,100	ND < 500	ND < 50	ND < 50
	1st Quarter	2/5/2004	39,000	50	1,400	22,500	2,000	ND < 50	ND < 50	ND < 50	ND < 50	ND < 500	ND < 50	ND < 500	ND < 50	ND < 50
	2nd Quarter	5/4/2004	54,000	ND < 50	720	12,800	1,300	ND < 50	ND < 50	ND < 50	ND < 50	ND < 500	19,000	ND < 500	ND < 50	ND < 50
	3rd Quarter	8/9/2004	37,000	ND < 50	320	10,000	1,100	ND < 50	ND < 50	ND < 50	ND < 50	ND < 500	8,500	ND < 500	ND < 50	ND < 50
	4th Quarter	11/5/2004	9,800	ND < 50	68	1,940	170	ND < 50	ND < 50	ND < 50	ND < 50	ND < 500	890	ND < 500	ND < 50	ND < 50
	1st Quarter	2/6/2005	13,800	5.5	174	4,090	407	ND < 10	ND < 5.0	ND < 5.0	ND < 5.0	ND < 500	1,650	151	----	----
	2nd Quarter	5/13/2005	12,600	ND < 10	197	4,050	393	ND < 20	ND < 10	ND < 10	ND < 10	ND < 1,000	1,190	113	----	----
	3rd Quarter	8/9/2005	12,000	ND < 10.0	45.8	3,160	322	ND < 20.0	ND < 10.0	ND < 10.0	ND < 10.0	ND < 1,000	1,350	177	----	----
	4th Quarter	11/9/2005	4,590	2.7	29.1	1,440	141	ND < 5.0	ND < 2.5	ND < 2.5	ND < 2.5	ND < 250	825	179	----	----
	1st Quarter	3/8/2006	11,700	3.8	107	3,800	330	ND < 2.0	ND < 1.0	ND < 1.0	ND < 1.0	ND < 100	987	165	----	----
	2nd Quarter	6/28/2006	8,760	ND < 5.0	16	1,320	166	ND < 2.0	ND < 1.0	ND < 1.0	ND < 1.0	ND < 100	704	155	----	----
MW-6	2nd Quarter	5/1/2002	3,750	845	576	1,070	155	980	ND < 0.5	791	ND < 0.5	ND < 100	ND < 50	ND < 50	----	----
	3rd Quarter	8/3/2002	11,800	508	62	8,630	1,640	750	ND < 15	300	ND < 15	ND < 5,000	1,900	ND < 50	----	----
	4th Quarter	11/4/2002	9,480	535	35.2	3,420	743	1,330	ND < 0.5	558	ND < 0.5	ND < 50	190	ND < 50	ND < 0.5	ND < 0.5
	1st Quarter	2/5/2003	4,500	20	ND < 5.0	583	190	ND < 5.0	ND < 5.0	17	ND < 5.0	ND < 50	1,200	ND < 500	ND < 5.0	ND < 5.0
	2nd Quarter	5/12/2003	2,200	22	1.2	244	160	68	ND < 0.5	14	ND < 0.5	60	280	ND < 500	0.9	ND < 0.5
	3rd Quarter	8/2/2003	ND < 50	ND < 0.5	ND < 0.5	ND < 1.0	ND < 0.5	1	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5.0	ND < 50	2,500	ND < 0.5	ND < 0.5
	4th Quarter	11/8/2003	ND < 50	ND < 0.5	ND < 0.5	ND < 1.0	ND < 0.5	1.3	ND < 0.5	ND < 0.5	ND < 0.5	ND < 5.0	ND < 50	ND < 500	ND < 0.5	ND < 0.5
	1st Quarter	2/5/2004	110	4.2	ND < 0.5	ND < 1.0	ND < 0.5	16	ND < 0.5	5.6	ND < 0.5	ND < 5.0	ND < 50	ND < 500	ND < 0.5	ND < 0.5
	2nd Quarter	5/4/2004	2,200	25	2.4	200.5	4.0	69	ND < 0.5	17	ND < 0.5	27	590	ND < 500	ND < 0.5	ND < 0.5
	3rd Quarter	8/9/2004	880	14	ND < 5.0	ND < 15	ND < 5.0	220	ND < 5.0	16	ND < 5.0	280	470	ND < 500	ND < 5.0	ND < 5.0
	4th Quarter	11/5/2004	110	3.6	ND < 0.5	ND < 1.5	ND < 0.5	16	ND < 0.5	3.2	ND < 0.5	ND < 5.0	1,000	ND < 500	ND < 0.5	ND < 0.5
	1st Quarter	2/6/2005	ND < 50	ND < 0.5	ND < 0.5	ND < 1.0	ND < 0.5	3.6	ND < 0.5	1.0	ND < 0.5	ND < 50	ND < 50	86	----	----
	2nd Quarter	5/13/2005	ND < 50	ND < 0.5	ND < 0.5	ND < 1.0	ND < 0.5	2.1	ND < 0.5	0.8	ND < 0.5	ND < 50	ND < 50	71	----	----
	3rd Quarter	8/9/2005	ND < 50.0	0.8	ND < 0.5	ND < 1.0	ND < 0.5	8.2	ND < 0.5	3.2	ND < 0.5	ND < 50.0	ND < 50	87	----	----
	4th Quarter	11/9/2005	167	2.2	ND < 0.5	ND < 1.0	ND < 0.5	14.5	ND < 0.5	5.7	ND < 0.5	ND < 50.0	83	255	----	----
	1st Quarter	3/8/2006	ND < 50	ND < 0.5	ND < 0.5	ND < 1.0	ND < 0.5	ND < 1.0	ND < 0.5	ND < 0.5	ND < 0.5	ND < 50.0	ND < 50	ND < 50	----	----
	2nd Quarter	6/28/2006	89.4	2.6	ND < 0.5	ND < 1.0	ND < 0.5	13.1	ND < 0.5	5.4	ND < 0.5	ND < 50.0	65	156	----	----

Notes:

TPHg: Total petroleum hydrocarbons as gasoline

MTBE: Methyl tertiary butyl ether

DIPE: Diisopropyl ether

TAME: Tertiary amyl methyl ether

TPHd: Total petroleum hydrocarbons as diesel

TBA: Tertiary butanol

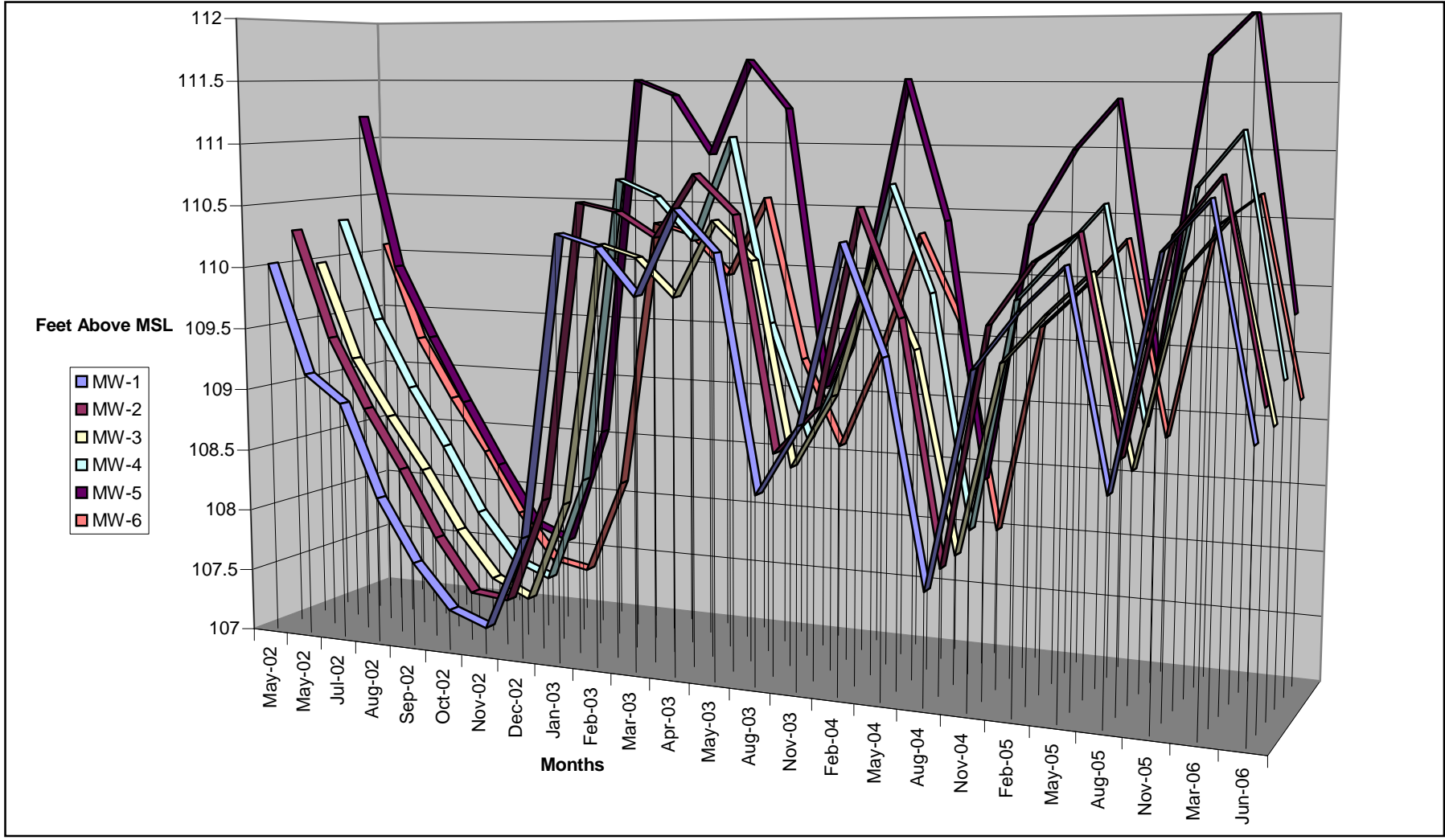
ETBE: Ethyl tertiary butyl ether

TPHmo: Total petroleum hydrocarbons as motor oil

ppb: parts per billion = µg/l = .001 mg/l = 0.001 ppm.

ND: Not detected. Sample was detected at or below the method detection limit as shown.

Chart 1
Hydrograph
Bigfoot Gas
2801 Central Avenue
McKinleyville, California 95519



Appendices

Appendix A



www.basiclab.com

voice 530.243.7234 2218 Railroad Avenue
fax 530.243.7494 Redding, California 96001

July 17, 2006

Lab ID: 6070010

Andy Malone
SOUNPACIFIC
4612 GREENWOOD HEIGHTS DR
KNEELAND, CA 95549
RE: BIGFOOT GAS SP-120

Dear Andy Malone,

Enclosed are the analysis results for Work Order number 6070010. All analysis were performed under strict adherence to our established Quality Assurance Plan. Any abnormalities are listed in the qualifier section of this report.

If you have any questions regarding these results, please feel free to contact us at any time. We appreciate the opportunity to service your environmental testing needs.

Sincerely,

Ricky Jensen
For

Ricky Jensen

Ricky D. Jensen
Laboratory Director

California ELAP Certification Number 1677



www.basiclab.com

voice 530.243.7234 2218 Railroad Avenue
fax 530.243.7494 Redding, California 96001

Report To: SOUNPACIFIC
4612 GREENWOOD HEIGHTS DR
KNEELAND, CA 95549

Attention: Andy Malone
Project: BIGFOOT GAS SP-120

Lab No: 6070010
Reported: 07/17/06
Phone: 707-269-0884
P.O. #

Volatile Organic Compounds

Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch
MW-1 Water (6070010-01) Sampled:06/28/06 00:00 Received:07/03/06 09:48									
Gasoline	ug/l	ND			50.0	EPA 8015/8260B	07/05/06	07/05/06	B6G0099
Benzene	"	ND			0.5	"	"	"	"
Toluene	"	ND			0.5	"	"	"	"
Ethylbenzene	"	ND			0.5	"	"	"	"
Xylenes (total)	"	ND			1.0	"	"	"	"
Methyl tert-butyl ether	"	ND			1.0	"	"	"	"
Di-isopropyl ether	"	ND			0.5	"	"	"	"
Tert-amyl methyl ether	"	ND			0.5	"	"	"	"
Ethyl tert-butyl ether	"	ND			0.5	"	"	"	"
Tert-butyl alcohol	"	ND			50.0	"	"	"	"
Surrogate: 4-Bromofluorobenzene		101 %			43-155	"	"	"	"
MW-2 Water (6070010-02) Sampled:06/28/06 00:00 Received:07/03/06 09:48									
Gasoline	ug/l	1160	G-03, R-07		500	EPA 8015/8260B	07/05/06	07/05/06	B6G0099
Benzene	"	ND	R-07		5.0	"	"	"	"
Toluene	"	ND	R-07		5.0	"	"	"	"
Ethylbenzene	"	ND	R-07		5.0	"	"	"	"
Xylenes (total)	"	ND	R-07		10.0	"	"	"	"
Methyl tert-butyl ether	"	979	R-01, R-07		50.0	"	07/05/06	"	"
Di-isopropyl ether	"	ND	R-07		5.0	"	07/05/06	"	"
Tert-amyl methyl ether	"	459	R-07		5.0	"	"	"	"
Ethyl tert-butyl ether	"	ND	R-07		5.0	"	"	"	"
Tert-butyl alcohol	"	ND	R-07		500	"	"	"	"
Surrogate: 4-Bromofluorobenzene		93.6 %			43-155	"	"	"	"
MW-3 Water (6070010-03) Sampled:06/28/06 00:00 Received:07/03/06 09:48									
Gasoline	ug/l	96.1			50.0	EPA 8015/8260B	07/05/06	07/05/06	B6G0099
Benzene	"	ND			0.5	"	"	"	"
Toluene	"	ND			0.5	"	"	"	"
Ethylbenzene	"	ND			0.5	"	"	"	"
Xylenes (total)	"	ND			1.0	"	"	"	"
Methyl tert-butyl ether	"	99.5			10.0	"	07/05/06	"	"
Di-isopropyl ether	"	ND			0.5	"	07/05/06	"	"
Tert-amyl methyl ether	"	29.5			0.5	"	"	"	"
Ethyl tert-butyl ether	"	ND			0.5	"	"	"	"
Tert-butyl alcohol	"	ND			50.0	"	"	"	"
Surrogate: 4-Bromofluorobenzene		95.6 %			43-155	"	"	"	"
MW-4 Water (6070010-04) Sampled:06/28/06 00:00 Received:07/03/06 09:48									
Gasoline	ug/l	4970	R-01		500	EPA 8015/8260B	07/06/06	07/05/06	B6G0099
Benzene	"	55.8			1.0	"	07/05/06	"	"
Toluene	"	99.9			1.0	"	"	"	"
Ethylbenzene	"	130	R-01		5.0	"	07/06/06	"	"
Xylenes (total)	"	735	R-01		10.0	"	"	"	"
Methyl tert-butyl ether	"	7.7			2.0	"	07/05/06	"	"
Di-isopropyl ether	"	ND			1.0	"	"	"	"
Tert-amyl methyl ether	"	ND			1.0	"	"	"	"
Ethyl tert-butyl ether	"	ND			1.0	"	"	"	"
Tert-butyl alcohol	"	ND			100	"	"	"	"
Surrogate: 4-Bromofluorobenzene		92.8 %			43-155	"	"	"	"


Approved By

Basic Laboratory, Inc.
California D.O.H.S. Cert #1677



www.basiclab.com

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fax 530.243.7494 Redding, California 96001

Report To: SOUNPACIFIC
4612 GREENWOOD HEIGHTS DR
KNEELAND, CA 95549

Attention: Andy Malone
Project: BIGFOOT GAS SP-120

Lab No: 6070010
Reported: 07/17/06
Phone: 707-269-0884
P.O. #

Volatile Organic Compounds

Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch
MW-5 Water (6070010-05) Sampled:06/28/06 00:00 Received:07/03/06 09:48									
Gasoline	ug/l	8760	R-07		500	EPA 8015/8260B	07/05/06	07/05/06	B6G0099
Benzene	"	ND	R-07		5.0	"	"	"	"
Toluene	"	15.8	R-07		5.0	"	"	"	"
Ethylbenzene	"	166	R-07		5.0	"	"	"	"
Xylenes (total)	"	1320	R-07		10.0	"	"	"	"
Methyl tert-butyl ether	"	ND	R-07		10.0	"	"	"	"
Di-isopropyl ether	"	ND	R-07		5.0	"	"	"	"
Tert-amyl methyl ether	"	ND	R-07		5.0	"	"	"	"
Ethyl tert-butyl ether	"	ND	R-07		5.0	"	"	"	"
Tert-butyl alcohol	"	ND	R-07		500	"	"	"	"
Surrogate: 4-Bromofluorobenzene		102 %			43-155	"	"	"	"
MW-6 Water (6070010-06) Sampled:06/28/06 00:00 Received:07/03/06 09:48									
Gasoline	ug/l	89.4			50.0	EPA 8015/8260B	07/06/06	07/06/06	B6G0330
Benzene	"	2.6			0.5	"	"	"	"
Toluene	"	ND			0.5	"	"	"	"
Ethylbenzene	"	ND			0.5	"	"	"	"
Xylenes (total)	"	ND			1.0	"	"	"	"
Methyl tert-butyl ether	"	13.1			1.0	"	"	"	"
Di-isopropyl ether	"	ND			0.5	"	"	"	"
Tert-amyl methyl ether	"	5.4			0.5	"	"	"	"
Ethyl tert-butyl ether	"	ND			0.5	"	"	"	"
Tert-butyl alcohol	"	ND			50.0	"	"	"	"
Surrogate: 4-Bromofluorobenzene		96.6 %			43-155	"	"	"	"


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Report To: SOUNPACIFIC
4612 GREENWOOD HEIGHTS DR
KNEELAND, CA 95549

Attention: Andy Malone
Project: BIGFOOT GAS SP-120

Lab No: 6070010
Reported: 07/17/06
Phone: 707-269-0884
P.O. #

TPH with Silica Gel Cleanup

Analyte	Units	Results	Qualifier	MDL	RL	Method	Analyzed	Prepared	Batch
MW-1 Water (6070010-01) Sampled:06/28/06 00:00 Received:07/03/06 09:48									
Diesel	ug/l	ND			50	EPA 8015 MOD	07/06/06	07/03/06	B6G0009
Motor Oil	"	100	QM-07		50	"	"	"	"
Surrogate: Octacosane		106 %			50-150	"	"	"	"
MW-2 Water (6070010-02) Sampled:06/28/06 00:00 Received:07/03/06 09:48									
Diesel	ug/l	125			50	EPA 8015 MOD	07/06/06	07/03/06	B6G0009
Motor Oil	"	127	QM-07		50	"	"	"	"
Surrogate: Octacosane		111 %			50-150	"	"	"	"
MW-3 Water (6070010-03) Sampled:06/28/06 00:00 Received:07/03/06 09:48									
Diesel	ug/l	ND			50	EPA 8015 MOD	07/06/06	07/03/06	B6G0009
Motor Oil	"	111	QM-07		50	"	"	"	"
Surrogate: Octacosane		99.5 %			50-150	"	"	"	"
MW-4 Water (6070010-04) Sampled:06/28/06 00:00 Received:07/03/06 09:48									
Diesel	ug/l	593			50	EPA 8015 MOD	07/06/06	07/03/06	B6G0009
Motor Oil	"	67	QM-07		50	"	"	"	"
Surrogate: Octacosane		93.0 %			50-150	"	"	"	"
MW-5 Water (6070010-05) Sampled:06/28/06 00:00 Received:07/03/06 09:48									
Diesel	ug/l	704			50	EPA 8015 MOD	07/06/06	07/03/06	B6G0009
Motor Oil	"	155	QM-07		50	"	"	"	"
Surrogate: Octacosane		89.3 %			50-150	"	"	"	"
MW-6 Water (6070010-06) Sampled:06/28/06 00:00 Received:07/03/06 09:48									
Diesel	ug/l	65			50	EPA 8015 MOD	07/06/06	07/03/06	B6G0009
Motor Oil	"	156	QM-07		50	"	"	"	"
Surrogate: Octacosane		121 %			50-150	"	"	"	"


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Report To: SOUNPACIFIC
4612 GREENWOOD HEIGHTS DR
KNEELAND, CA 95549
Attention: Andy Malone
Project: BIGFOOT GAS SP-120

Lab No: 6070010
Reported: 07/17/06
Phone: 707-269-0884
P.O. #

Notes and Definitions

R-07 The sample was diluted due to the presence of high levels of target analytes resulting in elevated reporting limits.
R-01 The Reporting Limit and Detection Limit for this analyte have been raised due to necessary sample dilution.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
G-03 The GRO result reported for this sample does not match the laboratory's gasoline standard, but is due primarily to MTBE.
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the detection limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
< Less than reporting limit
≤ Less than or equal to reporting limit
> Greater than reporting limit
≥ Greater than or equal to reporting limit
MDL Method Detection Limit
RL/ML Minimum Level of Quantitation
MCL/AL Maximum Contaminant Level/Action Level
mg/kg Results reported as wet weight
TTLC Total Threshold Limit Concentration
STLC Soluble Threshold Limit Concentration
TCLP Toxicity Characteristic Leachate Procedure


Approved By

Basic Laboratory, Inc.
California D.O.H.S. Cert #1677

BASIC LABORATORY CHAIN OF CUSTODY RECORD

2218 Railroad Ave., Redding, CA 96001 (530) 243-7234 FAX (530) 243-7494

LAB #:

6070010

CLIENT NAME: SOUN PACIFIC				PROJECT NAME: BIGFOOT GAS				PROJECT #: SP-120				SAMPLE TYPE: GROUNDWATER							
ADDRESS: P.O. Box 13 KNIRLAND, CA 95549				REQUESTED COMP. DATE: STANDARD 7/18/06				STATE FORMS? <input type="checkbox"/>				# OF SAMPLES: 6							
				TURN AROUND TIME: STD <input checked="" type="checkbox"/> RUSH <input type="checkbox"/>				PAGE 1 OF 1											
PROJECT MANAGER: ANDY MALONE				ANALYSIS REQUESTED								REP:							
PHONE: (707) 269-0884				FAX: (707) 269-0699				E-MAIL: analytical@sounpacific.com				ID#:							
INVOICE TO: SOUNPACIFIC				PO#:								SYSTEM#:							
SPECIAL MAIL <input type="checkbox"/> E-MAIL <input checked="" type="checkbox"/> FAX <input type="checkbox"/> EDT <input checked="" type="checkbox"/>												GLOBAL ID #: T062300275							
DATE		TIME		WATER	COM	SOIL	SAMPLE DESCRIPTION				# OF BOTTLES	TPHg (EPA 8260b)	BTXE	5-oxy	TPHd (EPA 8015 w/SILICA GEL CLEANUP)	TPHnd	LAB ID	REMARKS	
6/28/06				X			2ND QUARTER SAMPLING EVENT				5	X	X	X	X	X	1		
							MW-2										2		
							MW-3										3		
							MW-4*										4	Limited Sample	
							MW-5										5		
							MW-6										6		
*Note: 1 liter AG broken in shipping for MW-4																			
(in vials)																			
PRESERVED WITH: HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> ZnAc ₂ /NaOH <input type="checkbox"/> HCL <input checked="" type="checkbox"/> NaThio <input type="checkbox"/> OTHER _____																			
SAMPLED BY: Jack Skarpan				DATE/TIME: 6/29/06				RELINQUISHED BY: Jack Skarpan				DATE/TIME: 6/29/06							
RECEIVED BY:				DATE/TIME:				RELINQUISHED BY:				DATE/TIME:							
RECEIVED BY: (SAMPLES UNVERIFIED)				DATE/TIME:				RELINQUISHED BY:				DATE/TIME:							
RECEIVED BY LAB: (VERIFIED) Nina Roke				DATE/TIME: 7/3/06 9:40				SAMPLES SHIPPED VIA: <input checked="" type="checkbox"/> UPS FEDEX POST BUS OTHER _____											

Appendix B



Standard Operating Procedures

Groundwater Level Measurements and Free Phase Hydrocarbon Measurements

All SounPacific staff and contractors shall adopt the following procedures any time that groundwater elevations are determined for the purposes of establishing groundwater gradient and direction, and prior to any sampling event.

Wells are to be tested for free phase hydrocarbons (free product) before the first development or sampling of any new well, and in any well that has historically contained free product.

Equipment Checklist

- ☐ Combination water level / free phase hydrocarbon indicator probe (probe)
- ☐ Gauging Data / Purge Calculations Sheet
- ☐ Pencil or Pen/sharpie
- ☐ Disposable Gloves
- ☐ Distilled Water and or know water source on site that is clean
- ☐ Alconox (powder) or Liquinox (liquid) non-phosphate cleaners—do not use soap!
- ☐ Buckets or Tubs for decontamination station
- ☐ Tools necessary to access wells
- ☐ Site Safety Plan
- ☐ This Standard Operating Procedure
- ☐ Notify Job site business that you will be arriving to conduct work.

Procedure

1. Review Site Safety Plan and utilize personal protection appropriate for the contaminants that may be encountered.
2. Access and open all monitoring wells to be measured. Allow wells to equilibrate for approximately 15 minutes before taking any measurements.

3. Decontaminate probe with Alconox or Liquinox solution, and rinse with distilled water.
4. Determine the diameter of the well to be measured and indicate this on the Gauging Data / Purge Calculations Sheet.
5. Words of caution: Please be careful with water level and product meters probes are not attached with high strength material so please make sure to avoid catching the end on anything in the well and make sure not to wind reel to the point that it could pull on the probe. ***If product is suspect in a well, go to step 6, if no product is suspected go to step 7 below.***
6. **When product is present or suspected:** use the product level meter. Clip the static charge clamp to the side of the well casing. Then lower probe into the well through the product/water interface about one foot if possible. Then slowly raise the probe back up through the product/water interface layer and record the level as the tone changes from solid to broken-record this level in the Gauging Data / Purge Calculations Sheet to the nearest 0.01 foot (DTP). Continue to raise the probe up through the product until the tone stops completely-record this level on the Gauging Data / Purge Calculations Sheet to the nearest 0.01 foot (DTW). Then go to step 8.
7. **When no product is present or suspected:** If no free product is present, record the depth of the water (to the nearest 0.01 foot) relative to the painted black mark on the top of the well casing. Leave the probe in the well just a hair above the water level to ensure the well as equilibrated. As the well rises, the tone will sound. Make sure no increase in water levels have occurred in over a ten-minute period. Water levels can lower as well as rise. Make sure you note when the level you keep lowering the probe to has remained stable for at least ten minutes. Once this has been accomplished, please record this level in the Gauging Data / Purge Calculations Sheet to the nearest 0.01 foot (DTW).
8. Turn off the probe, and use the probe to determine the depth to the bottom of the well relative to the top of the well casing. This is the depth to bottom measurement (DTB).
9. Decontaminate probe and tape by washing in an Alconox/Liquinox solution (***read directions on solution for ratio of water to cleanser***) and use the toothbrush provided to remove any foreign substance from the probe and tape. Then triple rinse probe and tape with clean water and then proceed to take measurements in the next well.
10. If sampling is to occur, proceed to implement SounPacific's Standard Operating Procedure for Monitoring Well Purging and Sampling. If no sampling is to be performed, close and secure all wells and caps.



Standard Operating Procedures

Monitoring Well Purging and Groundwater Sampling

All SounPacific employees and contractors shall adopt the following procedures any time that groundwater samples are to be taken from an existing groundwater monitoring well.

Prior to the implementation of these procedures, the groundwater level **MUST** be measured and the presence of free phase hydrocarbons determined in accordance with SounPacific's Standard Operating Procedures for Groundwater Level Measurements and Free Phase Hydrocarbon Measurements.

Equipment Checklist

- ☐ **Gauging Data / Purge Calculations Sheet used for water level determination**
- ☐ Chain of Custody Form
- ☐ pH/ Conductivity / Temperature meter
- ☐ Pencil or Pen
- ☐ Indelible Marker
- ☐ Calculator
- ☐ Disposable Gloves
- ☐ Distilled Water
- ☐ Alconox/liquinox liquid or powdered non-phosphate cleaner
- ☐ Buckets or Tubs for decontamination station
- ☐ Bottom-filling bailer or pumping device for purging
- ☐ Disposable bottom-filling bailer and emptying device for sampling
- ☐ String, twine or fishing line for bailers
- ☐ Sample containers appropriate for intended analytical method (check with lab)
- ☐ Sample labels
- ☐ Site Safety Plan
- ☐ Tools necessary to access wells
- ☐ Drum space on site adequate for sampling event

SounPacific Standard Operating Procedures for Groundwater Level Measurements and Free Phase Hydrocarbon Measurements, Page 2 of 3

Procedure

1. Review Site Safety Plan and utilize personal protection appropriate for the contaminants that may be encountered.
2. Measure groundwater levels and check for the presence of free product in accordance with the Standard Operating Procedures for Groundwater Level Measurements and Free Phase Hydrocarbon Measurements.

Purging

3. Calculate and record the volume of standing water in each well using the information provided on the Gauging Data / Purge Calculations sheet.
 $(DTB-DTW) \times \text{Conversion Factor} = \text{Casing Volume}$.
4. The purge volume shall be at least three times and no more than seven times the volume of standing water (the casing volume).
5. Purge the well by bailing or pumping water from the well into a calibrated receptacle, such as a five gallon bucket or tub with markings to indicate one gallon increments. Collect purgeate in a 55 gallon labeled drum and store on site. Drum labels should include the date, contents, site number, and SounPacific's name and telephone number.
6. Take measurements of pH, conductivity, temperature, and visual observations to verify the stabilization of these parameters. At least five measurements of these parameters should be made throughout the purging process. The parameters shall be considered stabilized if successive measurements vary by less than 0.25 pH units, 10% of conductivity in μS , and 1°C (or 1.8°F). Continue purging until at least three times the casing volume has been removed, and the measured parameters have stabilized as indicated above. Do not exceed seven casing volumes.
7. Take a final depth to groundwater measurement and calculate the casing volume of the recharged well. Ideally, the casing volume should have recharged to at least 80% of the original measured casing volume before sampling commences. If due to slow recharge rates it is not feasible to wait for the well to fully recharge, then note this on the Gauging Data / Purge Calculation Sheet and proceed to sample following the procedure below.

Sampling

8. **After completing groundwater measurement, and checking for free product if necessary, in accordance with SounPacific's Standard Operating Procedures for Groundwater Level Measurements and Free Phase Hydrocarbon Measurements, and after purging monitoring wells as described above, groundwater samples may be collected.**
9. Slowly lower a clean, previously unused disposable bailer into the well water approximately half of the bailer length, and allow the bailer to slowly fill.
10. Withdraw the full bailer from the monitoring well and utilize the included (clean and unused) bottom-emptying device to fill the necessary sample containers, and seal the container with the included PTFE (Teflon) lined cap.
11. When filling VOAs, fill the VOA completely full, with the meniscus rising above the rim of the bottle. Carefully cap the VOA and invert it and gently tap it to determine whether air bubbles are trapped inside. If the VOA contains air bubbles, refill the VOA and repeat this step.
12. All samples shall be labeled with the Sample ID, the Sample Date, and the Sample Location or Project Number. Use an indelible marker for writing on sample labels.
13. Record all pertinent sample data on the Chain of Custody.
14. Place samples in an ice chest cooled to 4°C with ice or "blue ice". Bottles should be wrapped in bubble wrap, and VOA's should be inserted in a foam VOA holder to protect against breakage. Samples are to be kept at 4°C until delivered to the laboratory. Any transference of sample custody shall be indicated on the Chain of Custody with the appropriate signatures as necessary.
15. Utilize clean, previously unused gloves, bailer and line, and bottom-emptying device for each well sampled.
16. When finished with all sampling, close and secure all monitoring wells.
17. Leave the site cleaner than when you arrived and drive safely.

Appendix C

GAUGING DATA/PURGE CALCULATIONS

Job Site: BIGFOOT GASJob No.: SP-120Event: 2ND QUARTER SAMPLING EVENT Date: 6/28/06

RECEIVED

7/6/06

Sun Pacific
Environmental Services

(707) 269-0884

WELL NO.	DIA. (in.)	DTB (ft.)	DTW (ft.)	ST (ft.)	CV (gal.)	PV (gal.)	SPL (ft.)	Bailer Loads	Notes
MW-1	2	12.58	2.48	10.1	1.62	4.86			SHOWN, No HC odor
MW-2	2	12.05	3.73	8.32	1.33	3.99			SHOWN, HC odor, OBSTRUCTION in WELL ≈ 10' BTOC
MW-3	2	12.36	3.01	9.35	1.50	4.50			SHOWN, No HC odor
MW-4	2	12.60	3.36	9.24	1.48	4.44			SHOWN, HC odor
MW-5	2	11.80	2.78	9.02	1.44	4.32			No SHOWN, HC odor
MW-6	2	12.24	3.21	9.03	1.44	4.32			SHOWN, No HC odor

Explanation:

DIA. = Well Diameter

DTB = Depth to Bottom

DTW = Depth to Water

ST = Saturated Thickness (DTB-DTW)

CV = Casing Volume (ST x cf)

PV = Purge Volume (standard 3 x CV, well development 10 x CV)

SPL = Thickness of Separate Phase Liquid

Conversion Factors (cf):

2 in. dia. well cf = 0.16 gal./ft.

4 in. dia. well cf = 0.65 gal./ft.

6 in. dia. well cf = 1.44 gal./ft.

Sampler:

JACK SKRATHANDRUMS ONSITE

0 - SOIL

4 - H₂O → 1 DRUM TAKEN FROM MCK 76

0 - EMPTY

(All shown appears to be
IRON bacteria)

Well Gauging/Sampling Report

Sheet 1 of 6

Date: 6/28/06 Project Name: BIGFOOT GAS Project No: SP-120 Well Number: MW-1

Analyses Tested: TPHg, BTEX, 5-OXYS, TPHd, TPHmo

Sample Containers: (3) HCL VOAs AND (2) 1-L AMBER BOTTLES

Purge Technique: ☐ Bailer ☒ Pump

Sounder Used: ☐ Water Meter ☒ Interface Meter

Water & Free Product Levels

Time	Depth to Water	Depth to Product	Notes
10:48	2.48		NO SHOWN
11:13	2.48		SHOWN (Iron Bc)?
	END		

Field Measurements

Time	Total Vol. Removed (gal)	pH	Temp (F)	Cond. (ms/cm)	DO (mg/L)	DO (%)	
1:12	0	6.44	56.88	0.171	0.38	3.7	
1:22	1.62	6.64	56.26	0.163	0.74	7.1	
1:29	3.24	6.71	56.24	0.151	1.05	10.1	
1:34	4.86	6.75	56.26	0.159	1.16	11.2	

Field Scientist: JACK SKIMMANN

Well Gauging/Sampling Report

Sheet 2 of 6

Date: 6/28/06 Project Name: BIGFOOT GAS Project No: SP-120 Well Number: MW-2

Analyses Tested: TPHg, BTEX, 5-OXYS, TPHd, TPHmo

Sample Containers: (3) HCL VOAS AND (2) 1-L AMBER BOTTLES

Purge Technique: ☐ Bailor ☒ Pump

Sounder Used: ☐ Water Meter ☒ Interface Meter

Water & Free Product Levels

Time	Depth to Water	Depth to Product	Notes:
10:40	3.71		SHRN (Iron Bac)?
11:01	3.73		SHRN II
11:17	3.73		NO SHRN
	END		

Field Measurements

Time	Total Vol. Removed (gal)	pH	Temp (F)	Cond. (ms/cm)	DO (mg/L)	DO (%)	
12:31	0	6.49	56.37	0.702	0.33	3.2	
12:40	1.33	6.47	55.96	0.686	0.29	2.8	
12:47	2.66	6.39	55.85	0.613	0.33	3.2	
12:52	3.99	6.36	55.74	0.541	0.36	3.5	

Field Scientist: Jack Skirbawn

Well Gauging/Sampling Report

Sheet 3 of 6

Date: 6/28/06 Project Name: BILFOOT GAS Project No: SP-120 Well Number: MW-3

Analyses Tested: TPHg, BTEX, 5-oxyS, TPHd, TPHmd

Sample Containers: (3) HCL VOAS AND (2) 1-L AMBER BOTTLES

Purge Technique: ☐ Bailer ☒ Pump

Sounder Used: ☐ Water Meter ☒ Interface Meter

Water & Free Product Levels

Time	Depth to Water	Depth to Product	Notes
10:45	3.01		SHOWN (iron bact.)?
11:09	3.01 3.01		SHOWN ↓
	END		

Field Measurements

Time	Total Vol. Removed(gal)	pH	Temp(F)	Cond.(ms/cm)	DO(mg/L)	DO(%)	
1:48	0	6.46	59.06	0.267	0.22	2.2	
1:55	1.50	6.38	60.60	0.247	0.23	2.3	
2:03	3.0	6.45	59.28	0.218	0.24	2.4	
2:08	4.50	6.45	59.55	0.240	0.34	3.4	

Field Scientist: JACK SKAHLAN

Well Gauging/Sampling Report

Sheet 4 of 6

Date: 6/28/06 Project Name: BIGFOOT GAS Project No: SP-120 Well Number: MW-4

Analyses Tested: TPHg, BTEX, 5-oxyS, TPHd, TPHmo

Sample Containers: (3) HCL VOAS AND (2) 1-L AMBER BOTTLES

Purge Technique: ☐ Bailer ☒ Pump

Sounder Used: ☐ Water Meter ☒ Interface Meter

Water & Free Product Levels

Time	Depth to Water	Depth to Product	Notes
10:37	3.36		SHOWN (10m back)?
10:58	3.36		SHOWN ↓
	END		

Field Measurements

Time	Total Vol. Removed (gal)	pH	Temp (F)	Cond. (ms/cm)	DO (mg/L)	DO (%)	
12:00	0	6.65	60.84	0.363	0.37	3.8	
12:09	1.48	6.68	61.63	0.319	0.29	2.9	
12:13	2.96	6.71	61.27	0.304	0.29	3.0	
12:19	4.44	6.72	60.98	0.294	0.28	2.8	

Field Scientist: JACK SKRABAW

Well Gauging/Sampling Report

Sheet 5 of 6

Date: 6/28/06 Project Name: BIGFOOT GAS Project No: SP-120 Well Number: MW-5

Analyses Tested: TPHg, BTEX, 5-oxyS, TPHd, TPHno

Sample Containers: (3) HCL VOAS AND (2) 1-L AMBER BOTTLES

Purge Technique: ☐ Bailer ☒ Pump

Sounder Used: ☐ Water Meter ☒ Interface Meter

Water & Free Product Levels

Time	Depth to Water	Depth to Product	Notes
10:33	2.78		No SHOWN
10:55	2.78		No SHOWN
	END		

Field Measurements

Time	Total Vol. Removed/(gal)	pH	Temp/(F)	Cond./(ms/cm)	DO/(mg/L)	DO/(%)	
11:29	0	6.40	58.11	0.332	1.34	13.1	
11:35	1.44	6.50	61.01	0.320	0.77	7.9	
11:43	2.88	6.58	60.71	0.321	0.60	6.1	
11:48	4.32	6.62	60.87	0.322	0.58	5.9	

Field Scientist: JACK SKIAHAN

Well Gauging/Sampling Report

Sheet 6 of 6

Date: 6/28/06 Project Name: BIGFOOT GAS Project No: SP-120 Well Number: MW-6

Analyses Tested: TPHg, BTX, 5-oxys, TPHd, TPHmo

Sample Containers: (3) HCL VDAS AND (2) 1-L AMBER BOTTLES

Purge Technique: ☐ Bailer ☒ Pump

Sounder Used: ☐ Water Meter ☒ Interface Meter

Water & Free Product Levels

Time	Depth to Water	Depth to Product	Notes
10:43	3.20		SHOWN iron bar
11:04	3.21		SHOWN ↓
	END		

Field Measurements

Time	Total Vol. Removed (gal)	pH	Temp (F)	Cond. (ms/cm)	DO (mg/L)	DO (%)	
2:20	0	6.62	60.10	0.272	0.22	2.2	
2:27	1.44	6.59	60.57	0.242	0.24	2.4	
2:32	2.88	6.67	60.28	0.236	0.45	4.5	
2:38	4.32	6.70	59.96	0.227	0.38	3.8	

Field Scientist: JACK SKRANON